CS609-System Programming

UPDATE HANDUTS

MID TERM MCQS

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1. Which of the following tasks is not performed by the operating system.
   - Multitasking
   - Memory Management
   - File Management
   - Hardware repairing
2. Windows operating system allows us to run a huge process in a small memory space due to
   - Efficient primary memory management
   - Flexibility naming scheme for resources
   - High processing speed of processor
   - Virtual memory management
3. To provide an interface between the user and computer, a system is required which is called_____
   - Application software
   - Operating system
   - Customized software
   - Both application and customized software
4. A process-1 in windows operating system can access the momery space of process-2 if _____
   - Process-1 has no privilege to access memory space of other processes
   - Both processes have same ID
   - Process-1 loaded in the same space as process-2
   - Process-1 has privilege to access memory space of other processes.
5. Windows operating system provides a naming scheme for the resources which allows maximum character only
   - 255
   - 16
   - 55
   - 155
6. DOS was a _____operating system.
   - GUI based
   - Command line
   - Real time
   - Multitasking
7. API stands for _____.
   - Application programming interface
   - Advance programming interface
   - Application programming integrity

- Application programs interoperability.

8. Which operating system was offered by Microsoft that was used prior to windows
   - LINUX
   - UNIX
   - Solaris
   - Dos
9. Which of the following theme is not consider while introducing the new version of windows.
   - Enhanced API
   - Scalability
   - Performance
   - Increasing cost
10. Which version of windows is used for mobile devices
    - Windows ME
    - Windows CE
    - Windows vista
    - Windows server
11. In 2021, which of the following desktop operating systems was widely used in the world market?
    - Windows
    - Fedora
    - Salaris
    - Linux
12. Using _____commands can be issued to the system through icons, buttons, shortcuts, sound etc
    - Result- driven interface
    - Graphical user interface
    - Menu-driven interface only
    - Command only
13. One of the major causes of windows dominance in PC's market is its
    - User-friendly GUI
    - Best security features
    - Feature of multitasking
    - Best marketing strategy
14. Which statement is not correct about the windows operating system
    - It can only be used in desktop system
    - It supports both 32&64-bit architecture
    - It supports voice commands
    - It supports diverse hardware platforms

15. Which statement is incorrect about open source software?
    - Paid license is required for it use
    - Changes can be made by the general public
    - Source code is freely available
    - It is publicly available
16. Choose the major drawback of a closed source software
    - Not affordable by the user
    - Not customizable
    - Not freely available to download
    - Neither affordable, customizable, nor freely available for download
17. Example of a closed source software is _____
    - Linux
    - Windows OS
    - Chrome browser
    - Fedora
18. A uniform extension is software components is possible in ____software.
    - Vender specific
    - Open source
    - Community source
    - Both open and closed
19. A socket on end-point is required only if
    - Processor tries to write on internal hard disk
    - Two processes communication over network
    - A process needs a resource
    - Process needs to access main memory
20. DWORD data type represents _____
    - 32 bit unsigned integer
    - 32 bit signed integer
    - 16 bit unsigned integer
    - 16 bit signed integer
21. A software or application can access any windows object _____
    - Directly
    - Directly and through API as well
    - Through API only
    - Not directly nor through API
22. Windows datatype LPTSTR
    - Long pointer to TSTR
    - Last pointer to TSTR
    - Last pointer to string

- Long pointer to STR

23. Each windows API has a _____number of parameters.
    - Fixed
    - Two
    - Variable
    - Four
24. Which statement is true about a multi- threading process?
    - A process has one or more threads
    - A process has only one thread
    - A thread has only one process
    - A thread can be created without process
25. Windows supports both the 32 and 64-bit source code by _____
    - Keeping separate API's for 32 and 64-bit code
    - Converting 32-bit into 64-bit code
    - Converting 64-bit into 32-bit code
    - Keeping separate compilers for each hardware
26. Windows operating system keeps _____version of each API
    - Two
    - One
    - Complied
    - Interpreted
27. Which statement is incorrect about the 32-bit source code?
    - It runs on 64-bit hardware and can use its all features
    - It has its own windows API
    - It does not support large disk space
    - It runs on 64-bit hardware
28. Choose the appropriate advantage of C source code that uses C standard function
    - Can access advance windows features
    - Portable source code
    - Runs on windows platform only
    - Runs without making system calls to windows API's.
29. Choose the correct option for a source code that uses only windows API instead of C library functions.
    - Source code can only access some features of windows
    - Source code will not remain portable
    - Source code cannot be complied
    - Source code is portable
30. Which statement is true about open () function in C?
    - It opens the existing file and not exists it creats a new file

- It opens the file only writing
- It opens the file only reading
- It opens the file only existing

31. fopen() function in C returns _____if the file is not successfully opened
    - Zero value
    - Point to a file
    - NULL value
    - Neither NULL nor Zero
32. Open file objects using C library functions are identified by _____
    - Pointer to a file structure
    - Buffer
    - Handle
    - Both buffer and handle
33. A successfully read using fread() function in C is indicated by a _____return value.
    - Non-negative
    - Zero
    - Negative
    - Boolean
34. What the following C statement represents; FILE *ptr;
    - Pointer to a file structure
    - Pointer to a character
    - Pointer to a integer
    - Pointer to a binary number
35. Which statement is true about createfile() function
    - DWORD
    - BOOL
    - HANDLE
    - INT
36. The return type of readfile() and writefile() is
    - It open the existing file or creating a new file
    - It is not used for opening a file
    - It opens or create a file only for generic read
    - It opens or create a file only for generic write
37. LPWSTR stand for
    - Last pointer to wide string
    - Long pointer to wind string
    - Long pointer with string
    - Last pointer to string
38. The return type of malloc() function in C can be

- Pointer to allocate space or NULL
- Linked list
- NULL only
- An array

39. Which statement is correct about the convenience function?
    - It does not improve overall performance
    - It takes considerable time in execution
    - It performs a small task
    - A big task is performed a single API
40. UDF stands for
    - Universal driven format
    - Universal disk file
    - Universal driven file
    - Universal disk format
41. Which option is not related to the NT file system
    - Compression
    - Encryption
    - File size limitation
    - Fault tolerance
42. Which feature of NTFS related to data security?
    - Large file name mechanism
    - Encryption
    - File allocation table
    - Compression
43. Keeping in view the support for huge fole size, which file system is more favorable?
    - NTFS
    - FAT16
    - FAT32
    - FAT8
44. NTFS stand for _____
    - New trend file system
    - New technology file system
    - New trend for system
    - New technology for system
45. Which special symbol can be used in windows filename?
    - Pipe
    - Forward slash
    - Backward slash
    - Underscore

46. The path name of a remote resource of server starts with _____symbol.
- Forward slash
- Pipe
- Double back slash
- Black slash

47. In the windows file system, which symbol can be used as a path separator?
- Pipe symbol
- Back slash only
- Both forward and backward
- Forward slash only

48. The file extension usually contains _____characters.
- 5 to 8
- 2 to 4
- 1 to 2
- 1 to 3

49. In windows file system, the extension and file name is separated by _____.
- |
- Dot(.)
- \
- /

50. The name of windows API used for opening and creating a new file is
- CreateFile()
- OpenFile()
- CreateopenFile()
- ReopenFile()

51. The return type of create file() function is.
- NULL
- A handle to an open file or INVALID_HANDLE_VALUE
- INVALID_HANDLE_VALUE
- Always handle to run open file object

52. In FILE_SHARE_READ mode, the file is shared for _____
- Concurrent read and write by multiple process
- Concurrent read and write by a single process
- Concurrent read by single process
- Concurrent read by multiple process

53. In the createfile() function, if the same name file already exists when the attributes, create, Always is used to
- Delete the existing file and create a new file
- Delete the existing file

- Over write an existing file
- Create an existing file

54. In the createFile() function, which statement is true about open-existing attribute if the file does not exist.
    - It will create an existing file
    - It will open some other file insteated of specified file
    - It will fail to open the new file
    - It will create a new file
55. The windows API _____used to read data from a file and store it in a buffer.
    - Create File()
    - Copy file()
    - Read file()
    - Write file()
56. If the file is not opened in concurrent mode, then ReadFile() API. ReadFile()API starts reading from the _____
    - Backup file
    - Start file
    - End of file
    - Current file
57. If we want to read 1000 bytes from a file with ReadFile() function but there are actually only 400 bytes in a file then _____
    - Read operation will fail
    - 400 bytes will be read
    - 1000 bytes will be read
    - Exception will be thrown
58. The windows API _____is used to write data from a better and store it in a file
    - Create file
    - Copy file
    - Read file
    - Write file
59. The return type of writeFile() function is
    - BOOL
    - DWORD
    - LPDWORD
    - LPOVERLAPPED
60. It an invalid file handle is passed as a parameter to the closeFile() function, then it will return _____
    - 1
    - Empty string

- File handle
- False value

61. A Unicode word consists of _____bits
- 24
- 32
- 16
- 8

62. In Unicode formate, _____number of character can be encoded.
- 2^{10}
- 2^{8}
- 2^{32}
- 2^{16}

63. The latest version of windows supports _____standard.
- ASCII
- Unicode
- Scan codes
- Both ASCII and Unicode

64. TCHAR is a/ an _____type variable.
- ASCII
- Generic
- Unicode
- Both ASCII and Unicode

65. _stprintf() is a/ an _____c library function.
- Both ASCII and Unicode
- Generic
- Unicode
- ASCII

66. _tcscmp() is _____function to compare the string
- An ASCII
- A Unicode
- Not a generic
- A generic

67. Which one is the correct definition of generic main() function?
- Int-main
- Int main
- Int main
- Int_main

68. All generic data types are include _____header file.
- <tchar.h>

- <string.h>
- <windows.h>
- <char.h>

69. All generic functions are include in _____header file
- <string.h>
- <windows.h>
- <char.h>
- <tchar.h>

70. TextOutW() is _____bit API and it supports _____standard.
- 32,Generic
- 32,ASCII
- 32,Unicode
- 16,Unicode

71. The standard C library function atio() supports _____
- Generic code
- Unicode
- 128-bit character code
- 8-bit character code

72. To switch between 8-bit character code and standard Unicode _____functions and data type are required.
- Generic
- Non-generic
- Unicode
- 8-bit

73. Developing generic code needs extra effort but provides maximum _____
- Productivity
- User-friendly look
- Chance of errors
- Flexibility

74. What is the return value of GetlastError() function?
- It returns error code for last error
- It returns a formatted message for last error
- It takes input message from user and returns
- It returns error message for the last error

75. Which windows API is used to return a system error code?
- Geterror()
- Format message ()
- Get last error()
- Both geterror() and format Message()

76. Which header file includes all the Unicode macros for setting environment of a program?
- <everything.h>
- <environment.h>
- <tchar.h>
- <windows.h>

77. There are _____number of standard I/O devices in a windows system.
- Five
- Three
- Two
- Four

78. In a windows system, input _____and _____are three standard I/O devices.
- Error, correction
- Output, display
- Display, error
- Output, error

79. On execution, HANDLE_GetstHandle(DWORDnst Handle) will return a valid handle in case of
- Passing invalid parameters
- Success
- Exception
- Failure

80. STD_INPUT_HANDLE macro contains a variable, CONIN$,which is a/an _____.
- Input variable
- Default variable
- Environment variable
- Console variable

81. STD_OUTPUT_HANDLE contains _____as an environment variable.
- CONIN$
- CONOUT$
- CONPRNT$
- CONDIS$

82. Option () function takes _____parameters.
- 3
- 4
- 5
- Variable

83. Catfile() function takes _____parameters.
- 3
- 5

- 4
- 2

84. _____empire is considered to be pioneers of encryption as they used basic encryption algorithms to encrypt secret conversation in a war.
    - Persian
    - Chines
    - Roman
    - Mughal
85. Roman empire use _____algorithm to encrypt secret conversation.
    - CTR
    - Ceaser cipher
    - Brute force
    - Cryto graph
86. The text that we are going to encrypt is called _____test so it is denoted by
    - Personal, p
    - Secret, w
    - Proposed, p
    - Plain, p
87. We represent that text by the symbol _____in the encryption formula.
    - E
    - B
    - A
    - C
88. The formula of ceaser chopper is _____
    - C = (E + W)mod26
    - E = (P +n) mod27
    - E = (D +n)mod27
    - C = (P + n) mod26
89. We use MoveFileEx() to _____the existing file
    - Copy
    - Rename
    - Over write
    - Delete
90. Which statement is true about hard copy function?
    - Both the files must not be on same system volume.
    - Both the files must be in encrypted form
    - Creates a hard link for copy file
    - Security attributes will apply on new file name
91. deleteFile() function takes _____parameter.

- 4
- 1
- 2
- 3

92. Which of the following API is used for coping a file?
    - CopyFile(LPCTSTRIPExistingFileName,LPCTSTR IPNewFileName, bool bfailExists);
    - Char CopyFile(LPCTSTRIPExistingFileName,LPCTSTR IPNewFileName, bool bfailExists);
    - Bool CopyFile(LPCTSTRIPExistingFileName,LPCTSTR IPNewFileName, bool bfailExists);
    - String CopyFile(LPCTSTRIPExistingFileName,LPCTSTR IPNewFileName, bool bfailExists);
93. Correct syntax of MoveFile() function is _____
    - Bool Move (LIPCTSTR lpNewName, LPCTSTR lpExistingFileName);
    - Bool Move (LIPCTSTR lpNewName, LPCTSTR lpNewFileName);
    - Bool MoveFile (LIPCTSTR lpNewName, LPCTSTR lpExistingFileName);
    - Bool Move (bool lpNewName, LIPCTSTR LPCTSTR lpExistingFileName);
94. RemoveDirectory() function takes _____parameter(s)
    - 1
    - 4
    - 3
    - 2
95. Set currentDirectory() function takes _____parameter(s)
    - 2
    - 1
    - 4
    - 3
96. Return type of GetcurrentDirectory() function is ()
    - Int
    - Bool
    - String
    - DWORD
97. createDirectory() function takes _____parameter(s)
    - 4
    - 3
    - 1
    - 2
98. deleteFiles() function takes _____parameter(s)

- 1
- 4
- 3
- 2

99. Return type of printMsg() function is _____
- DWORD
- CHAR
- BOOL
- WORD

100. Return type of printString() function is _____
- DWORD
- CHAR
- BOOL
- WORD

101. Correct syntax for create console input file is
- hln = createFile(_T("CONOUT$"), GENERIC_READ&NULL, OPEN_ALWAYS, FILE_ATTRIBURT_NORMALNULL);
- hln = createFile(_T("CONOUT$"), GENERIC_READ,1 GENERIC_WRITE,0&NULL, OPEN_ALWAYS, FILE_ATTRIBURT_NORMALNULL);
- hln = createFile(_T("CONIN$"), GENERIC_READ,1 GENERIC_WRITE,0&NULL, OPEN_ALWAYS, FILE_ATTRIBURT_NORMALNULL);
- prohln = createFile(_T("CONIN$"), GENERIC_READ,1 GENERIC_WRITE,0&NULL, OPEN_ALWAYS, FILE_ATTRIBURT_NORMALNULL);

102. consoleprompt() function takes _____parameter(s)
- 2
- 3
- 5
- 4

103. Current syntax of Get currentDirectort() function is _____
- lencurDir =GetcurrentDirectory(DIRNAME_LEN,PwdBuffer);
- lencurDir =GetcurrentDirectory(DIRNAME_LEN);
- lencurDir =GetcurrentDirectory(DIRNAME_LEN);
- lencurDir =GetcurrentDirectory(PwdBuffer);

104. Get currentDirectory() function takes _____parameter(s)
- 2
- 3
- 5

- 4

105. Return type of prontMsg() function is _____
- WORD
- BOOL
- CHAR
- DWORD

106. Get Directory() function takes _____parameter(s)
- 2
- 3
- 5
- 4

107. In NTPS based system _____is the maximum allowed size for a single file
- 2^8
- 2^{32}
- 2^{16}
- 2^{64}

108. FAT 32 based system _____is the maximum allowed size for a single file
- 2^8
- 2^{32}
- 2^{16}
- 2^{64}

109. setFilepointer() function takes _____parameter(s)
- 2
- 3
- 5
- 4

110. PLONG is a _____
- Pointer to a long variable
- String
- Variable
- Pointer to a string

111. Return type of setFilePointerEx() is _____
- String
- Bool
- Word
- DWORD

112. In setfilepointer() function, lpNewFilePointer parameter is placed is a/an
- Handle
- PLARGE_INTEGER

- DWORD
- LARGE_INTEGER

113. In setFilePoiter() function, distance to move parameter is placed in
- DWORD
- Handle
- PLARGE_INTEGER
- LARGE_INTEGER

114. There are _____components of a LARGE integer
- 2
- 3
- 4
- 5

115. In the Overlapped structure, ULONG_PTR internal is a _____field.
- DWORD
- Integer
- Pointer
- Reserved

116. Overlap structure is a structure which is defined in the _____header file
- Window.h
- Stdary.h
- Everything.h
- Stdio.h

117. In the overlapped structure the data type of ofsetand offsethigh is
- DWORD
- WORD
- INT
- BOOL

118. EOF is short form of _____
- Erase of file
- End of file
- End of folder
- Erase of folder

119. Return types of getfilesizeEx() is _____
- Bool
- Char
- Int
- DWORD

120. To reduce the filesize we use _____windows API.
- Setfilesize()

- Changefilesize()
- SetendoffileEx()
- setfileEx()

121. File size cn be obtained using the _____windows API.
- GetFileSizwEx()
- FileSizeExGet()
- GetFileSize()
- FileSize()

122. In the RECORD structure, datatype of numRecord is _____
- DWORD
- BOOL
- Double
- Int

123. In the RECORD structure, datatype of numNonemptyRecord is _____
- DWORD
- BOOL
- Double
- Int

124. What will be next code statement, if the following if statement id true? If (!setFilePointer Ex(nfilecurrentptr, NULL,FILE_BEGIN))
- RepotError(_T("RecordAccessError: writeFile header".)4,TRUE);
- RepotError(_T("RecordAccessError: writeFile header".)6,TRUE);
- RepotError(_T("RecordAccessError: setpointer".)4,TRUE);
- RepotError(_T("RecordAccessError: set End of File".)5,TRUE);

125. What will be next code statement, if the following if statement is true? If (!readFile(hFile& header, size of(Header),&nXfer,&ovzero))
- ReportError (_T("RecordAccessError:set End of File."),5,TRUE);
- ReportError (_T("RecordAccessError:set pointer."),4,TRUE);
- ReportError (_T("RecordAccessError:write File header."),4,TRUE);
- ReportError (_T("RecordAccessError:readFile header."),6,TRUE);

126. During searching files/folders, a data structure _____is used to store the information about a found file or directory
- Directory -64
- Attribute
- Directory -32
- WIN32_FIND DATA

127. What will be next code statement, if the following if statement is true? If (!writeFile(hFile& header, size of(Header),&nXfer,&ovzero))

- ReportError (_T("RecordAccessError:set End of header."),6,TRUE);
- ReportError (_T("RecordAccessError:set pointer."),4,TRUE);
- ReportError (_T("RecordAccessError:write File header."),5,TRUE);
- ReportError (_T("RecordAccessError:readFile header."),4,TRUE);

128. The number of arguments required for Findclose()API is _____
- 3
- 1
- 2
- 0

129. The field flastAccessTime in a WIN32-FIND-DATA structure is used to represent a time when a file was _____time accessed
- Closing
- Last
- First
- Second ;last

130. Using GetFileTime() API argument(s) is/are provided.
- Both creation and last access time
- Only last access time
- Creation, last access and last write time
- Only creation time

131. GetFileAttribute() API need _____argument(s) to return the attributes of a file or directory
- 1
- 2
- 3
- 0

132. compareFileTime() API returns _____if both the file time are equal
- 0
- 2
- 1
- -1

133. Which option is incorrect when the traverseDirectory() API is required to be use?
- It allow non-recursive traversal
- Recursive and non-recursive traversal option is irrelevant
- It allows recursive traversal
- It allows both non- recursive and recursive traversal

134. Which of the following is not an argument of the traverse Directory() API
- Option for simple listing or recursive processing
- Search pattern

- Parent path
- File creation time

135. Temporary files are assigned an extension _____and they are used to store _____
- .temp,final result
- .tmpe,intermediate result
- .tmp,intermediate result
- .com,intermediate result

136. _____is not a value argument for setFiletime() function
- pModifyTime
- NULL
- _T(ame)
- _P(accesstime)

137. SetFileTime() function takes a total of arguments.
- 3
- 5
- 4
- 2

138. GetsystemTimeAsFiletime() function receive _____as an argument.
- File array
- File pointer
- File handle
- File objects

139. Which of the following is not a correct argument of options() function
- Argc
- Argv
- _T(amg)
- _T(amc)

140. The fseek() C library function uses _____bit file position
- 8
- 16
- 32
- 64

141. For file processing windows provides a propriating function called_____
- Pseek64()
- Fseek()
- Fseek64()
- Pseek()

142. In MicrosoftUNIX library, all I/O function are named with _____prefix.
- Semicolon

- Dot
- Underscore
- Colon

143. In lockFileEx() function, the OVERLAPPED data structure contains _____data members.

- 3
- 5
- 2
- 4

144. File lock can be _____or _____

- Read-only, write-only
- Read-only, write-only
- Read-locked, write only
- Read-only, read-write

145. The read operation does not conflict with the _____

- Existing shared lock
- Remove operation
- Write operation
- Existing exclusive lock

146. Before encountering a/an _____lock, the read or write operation can complete its request partially

- Exclusive lock
- Shared lock
- Mutually exclusive lock
- Conflicting lock

147. If process-A has a shared lock on a file, and process-B tries to read without a shared lock then the read attempt will _____

- Return exception
- Succeed
- Return a shared lock
- Fail

148. UNIX system stores information in _____directory similar to the registry entry

- /etc
- /reg
- /key
- /root

149. Programmers usually access windows build number through _____

- Web sockets
- Web API

- RESI API
- Windows API

150. Information about _____is not present in the registry file.
- Power supply
- Chipset
- Memory
- Processor

151. _____information is present in the registry HKEY_CURRENT_CINFIG.
- Display resolution
- Process make
- Display size
- Memory amount

152. The registry HKEY_CURRENT_USER does not contain _____information.
- System fonts
- Printers
- Environment variable
- Application preferences

153. The registry HKEY_LOCAL_MACHNE stores _____information about the machine
- Physical
- Private
- Protected
- Logical

154. _____function enumerates subkey names of an open registry key.
- RegEnumKey()
- RegOpenKey()
- RegOpenKeyEx()
- RegENUMKeyEx()

155. The RegOpenKeyEx() function opens a named_____
- Instance
- Sub key
- Key
- List

156. The function RegCreateKeyEx() ha _____parameters.
- 8
- 7
- 9
- 6

157. Is Reg() function processes registry keys rather than _____and _____

- Key-value pairs, files
- Key-value pairs, properties
- Directories, key-value pairs
- Directories, files

158. RegSetvalueEx() function is used to set the data of a _____value.
- Final
- Fixed
- Named
- Static

159. The exception could occur within a _____embedded in the try block.
- List
- Function
- Constructor
- Block

160. If filter_expression returns _____then windows ignores the exception handler and searches for an exception handler in the enclosing block.
- EXCEPTION_SKIP_EXECUTION
- EXCEPTION_CONTINUE_SEARCH
- EXCEPTION_CONTINUE_EXECUTION
- EXCEPTION_SKIP_SEARCH

161. If the filter-expression was set to continue the execution but it is not possible to continue, then _____exception code will be returned.
- EXECUTION-NONCONTINUABLE-EXCEPTION
- EXECUTION-NONCONTINUABLE-EXECUTION
- EXECPTION-NONCONTINUABLE-EXCEPTION
- EXECPTION-NONCONTINUABLE-EXCUTION

162. _____exception code is returned if the process attempts to read or write a virtual address for which it has no access rights
- EXCEPTION-INTEGERS-VOILATION
- EXCEPTION-INTEGERS-BREACH
- EXCEPTION-ACCESS-VOILATION
- EXCEPTION-INTEGERS-BREACH

163. SHE is not supported through_____
- Run time support
- Windows function
- Compiler supported language extensions
- Windows registry

164. The filter-expression in the _____clause is evaluated immediately after the exception occurs.

- -try
- -catch
- -except
- -finaly

165. The value of the _____determine actions that follow
- Filter-except
- Filter-expression
- Filter-try
- Filter-search

166. _____function is used to clear clearfp().
- _clear()
- _clearfp()
- _clean()
- _cls()

167. Programs can raise their own exception using the_____function
- BuildException
- RaiseException
- Createexception
- GenException

168. RaiseException has _____parameters.
- 4
- 2
- 5
- 3

169. The exception handler is actually a code portion associated with _____block.
- -finally
- -try
- -except
- -catch

170. The new value of floating point mask is determined by its value _____and its two arguments.
- Current-value
- C-value
- Current-mask
- Current-val

171. The _____function terminates the process if the program indicates that the error is fatal.
- Report handle()
- Terminate handle()

- Terminate process()
- Report error()

172. SIGSEGV error can only be generated bt _____but not by _____
- Windows, Raise
- Linux, macos
- Windows, linux
- Raise windows

173. A single try block must have a single _____or _____block
- Terminate, Except
- Finally, Except
- Finally, continue
- Terminate, finally

174. _____function is used within the termination handle to check how the try block is terminated
- Check termination()
- Check handle()
- Check termination
- Abnormal termination

175. ReportException() function have _____arguments.
- 3
- 4
- 2
- 5

176. Second arguments of ReportException()function is _____
- Exception code
- Exception handle
- Exception address
- Exception name

177. The process or thread can terminate itself using _____or ____functions.
- Terminate process(), Exist thread()
- Terminate process(), Terminate thread()
- Exist process(), Exist thread()
- Exist thread(), Terminate thread()

178. The termination handler cannot axecute the_____statement
- Break
- Report
- Continue
- Retur

179. C ++ execution handling is implemented using_____

- SCH
- ECH
- ESH
- SEH

180. A filter function _____the type of n exception.
- Restrick
- Evaluates
- Exclude
- Identifies

181. The _____exception are enabled with the help of controlfp() function
- Floating point
- String
- Mutex
- Integer

182. ecategory is a/an _____
- Reference variable
- Simple variable
- Class
- Pointer

183. Which of the following in the number of parameters takes by controlpf() function
- 3
- 4
- 1
- 2

184. Which of the following in the number of parameters takes by filter function
- 1
- 2
- 3
- 4

185. Which of the following instruction is used to suspend the execution of a program for 5 milliseconds?
- Sleep(500)
- Sleep(5000)
- Sleep(5)
- Sleep(0.5)

186. Which of the following functions is used to generate a sound beep for 0.7 seconds with the frequency if 750?
- Beep (750,800)
- Beep(700,750)

- Beep(750,700)
- Beep(750,0.7)

187. A program can be terminated by passing_____from keyboard
- Ctrl +p
- Ctrl +N
- Ctrl +C
- Ctrl +Z

188. The return type of WINAPI Handler() function if _____
- Void
- Static integer
- Static bool
- Static float

189. #include<io.h> is used for _____
- Input output operation
- Working in CLI
- Memory allocation
- Multitasking

190. Windows OS keeps_____version of each API.
- One
- Interpreted
- Two
- Complier

191. The options function have _____arguments
- 5
- 4
- 7
- 6

192. If invalid file handle is passed as a parameter to the closeFile API, then it will return_____
- Empty string
- 1
- File handle
- False value

193. _tcscmp() is _____function to compare the strings.
- A generic
- An ASCII
- Not a generic
- A Unicode

194. There are _____ number of standard input out devices.

- 3
- 5
- 4
- 2

195. Every lockfileEx() function that is successful must be followed by a call to _____

- DeletelockEx()
- RemovelockEx()
- UnlatchlockEx()
- UnclockfileEx()

196. Try and catch keywords _____required for vectored exception handlers.

- Are not
- Are
- Must be
- Are accasionally

197. In the context of vectored exception handling the zero value of firsthandler parameters shows that the handler being used wil be the _____one to execute.

- Third
- Last
- Second
- First

198. In the vectored exception handler, the value of firsthandler parameter specific the _____in which the handler will execute.

- Order
- Speed
- Allocation of stack
- Accuracy

199. Windows checks for a vectored exception handler at the _____place when a vectored is set up followed by unwinding the stack.

- Second
- Third
- First
- Fourth

200. In the context of vectored exception handling the non-zero value of firsthandler parameters shows that the handler being used wil be the _____one to execute.

- Third
- Last
- Second
- First

201. Which of the following is a dynamic data structure
- Circular array
- Array
- Tree
- Union

202. Identify the advantages provided by memory mapped files.
- Convenience, collision, octection and memory sharing
- Exception handling, speed and memory sharing
- Convenience, speed and usability
- Convenience, speed and memory sharing

203. Windows mainly uses _____API.
- 4
- 2
- 3
- 1

204. In win32_____of the virtual space is accessible to a process and the remaining space is utilize by the system for other tasks
- One quarter
- Half
- Two third
- Three quarter

205. The virtual space of process _____be larger than the physical memory space.
- Should always
- Cannot
- Must
- May

206. Which of the following occurs as a result of excessive page fault in
- Decreased system performance
- Increased utilization of I/O ports
- Decreased utilization of I/O ports
- Increased system performance

207. When the required page is not in the memory then a _____occurs.
- Page fault
- Dirty frame
- Page error
- Frame fault

208. The translation of a virtual address int physical address is managed by the _____
- Offset addressing
- Operating system

- Device driver
- Transport layers

209. Pages are swapped in and out when a_____occurs.
- Page fault
- Frame fault
- Page error
- Dirty frame

210. Which of the following is a dynamic data structure.
- Circular array
- Tree
- Union
- Array

211. A process can have _____heap(s).
- Only once
- Only two
- Many
- At the most two

212. When a fixed size data structure is allocated from a single heap, it reduces_____
- Fragmentation
- Errors
- Memory density
- Throughput

213. The heapReAlloc() API has _____parameter(s).
- 4
- 1
- 3
- 2

214. The heapAlloc() API has _____parameter(s).
- 3
- 4
- 2
- 1

215. When a heap (logical structure) is created the memory is _____allocated at the program.
- Partially
- Completely
- Not directly
- Directly

216. _____are the APIs for heap memory allocation.

- Heapcreate ()and HeapRealloc()
- Allocheap () and HeapRealloc()
- HeapAlloc() and HeapRealloc()
- HeapAlloc() and HeapRealloc()

217. For a non growable heap, the value of dwbytes in heap memory alloction is _____

- 0*7FEE8
- 0*7FDD8
- 0*AAAA8
- 0*7FFF8

218. _____is the first step to allocate heap in a program.

- HeapDestroy()
- HeapFree()
- Release and handle
- Get heap handle

219. The function heapSize() returns the size of a block, or _____in case failure.

- NULL
- 1
- -1
- 0

220. _____is used to deallocate the entire heap.

- HeapDestroy()
- HeapFree()
- HeapTruncate()
- HeapDelete()

221. Sorting is performed in the _____

- RootHeap
- RecHeap
- ProcHeap
- NodeHeap

222. _____stores the root address.

- RootHeap
- RecHeap
- ProcHeap
- NodHeap

223. The NodeHeap maintains a _____

- Data
- Data structure
- Record

- Root

224. There are _____parameters taken by the HeapCreate() API.
- 3
- 4
- 2
- 1

225. Which of the following is the correct windows API for accessing heap?
- INT GetProcessHeap(VOID)
- VOID GetProcessHeap(HANDLE)
- HANDLE GetProcessHeap(VOID)
- INT*GetProcessHeap(VOID)

226. When a fixed size data structure is allocated from a single heap, it reduces _____
- Memory density
- Errors
- Throughput
- Fragmentation

227. The parameters "flOption" in the HeapCreate() API is a combination of _____ flafs.
- 1
- 2
- 4
- 3

228. In order to make a program more efficient, _____heap(s) may be required
- Several
- Only one
- Partial
- Minimum number of

229. While using CreateFileMapping(), _____allow the mapping object to be secured.
- INVALID_VALUES
- PSECURITY_ATTRIBUTES
- LPSECURITY_ATTRIBUTES
- INVALID_HANDLE_VALUES

230. While using CreateFileMapping(), _____refers to the paging file.
- INVALID_VALUES
- PSECURITY_ATTRIBUTES
- LPSECURITY_ATTRIBUTES
- INVALID_HANDLE_VALUES

231. While using CreateFileMapping(),setting lpMapName to _____disables the map sharing.
- -1
- NULL
- 0
- 1

232. _____is the API for file mapping objects.
- Create_File_Mapping()
- CreateFileMapping()
- FileCreateMapping()
- MakeFileMapping()

233. Which of the following are the number of parameters taken by CreateFileMapping()?
- 7
- 6
- 5
- 4

234. The _____-- flag is set to be_____in the CreateProcess() function, which will determine whether child process will inherit copies of parent open handles.
- blanheritFlag, TRUE
- blnheritHandles, FALSE
- blanheritFlag,FALSE
- bInheritHandles, TRUE

235. IPC stands for_____.
- Information and privacy communication
- Inter privacy communication
- Information process communication
- Inter Process Communication

236. Inherited handles are _____copies that a parent and child might be accessing.
- Connected
- Similar
- related
- Distinct

237. Process IDs are always _____.
- Frequent
- Repeated
- Constant
- Unique

238. The process obtains environment and other information from_____call.

- CreateThread()
- GetEnvironmentinfo()
- Getinfo()
- CreateProcess()

239. lpApplicationName handle's value_____be NULL.
- May not
- May
- should
- Should not

240. In windows there are _____ways to get command line parameters for a process.
- Five
- Four
- Two
- Three

241. Windows OS does not have structure that keeps track record of the _____ processes.
- Child
- Grand –child
- Parent
- Parent_Child

242. The most fundamental process management function in windows is CreateProcess() that has ----------parameters.
- 12
- 6
- 4
- Ans: 10

243. The process can share memory and files but the process itself lie an individual _____memory space .
- Non_volatile
- Physical
- permanent
- Virtual

244. Thread Local Storage (TLS) is an array of collection of pointers enabling a thread to _____storage to create its unique data environment.
- De-allocate
- Clear
- Re-allocate
- Allocate

245. Each thread has its own_____.
- TLS
- Environment Block
- Stack
- TLS and Stack

246. The process of DLL detachment in explicit linking is invoke by_____ function call.
- Free()
- freeLib()
- Flibra
- FreeLibrary()

247. Information regarding DLLs is placed in the _____data structure.
- dwBuilderNumber
- dwPlatform
- MAJORVERSION
- Ans:DLLVERSION

248. LoadLibrary() and LoadLibraryEx() should never be called from_____as it will create more DLL entry Points.
- ThreadLibrarycalls()
- DllMinFunc()
- DisableThreadLibraryCalls()
- DllMain()

249. LoadLibraryEx() can suppress the execution of entry point, in _____-- linking of DLL.
- Implicit
- Static
- Dynamic
- Explicit

250. "Application that require newer updated functionality may sometime link with older DLL version". This statement refers to _____of DLL versioning
- Strength
- Advantages
- Caution
- Ans: Problem

251. If entry point of DLL is not specified, then it is an example of _____-- linking.\
- Explicit
- Dynamic
- Hard
- Implicit

252. In case of_____linking the DLL attaches at the time of process start and detaches when process ends
- Explicit
- Dynamic
- Hard
- Implicit

253. Explicit linking requires the program to explicitly specify the DLL to be _____.
- Freed
- Loaded
- Loaded and freed
- Ans: Loaded or freed

254. In a pointer function declaration for DLL explicit linking, HMODULE is NULL in case of_____.
- Execution
- Waiting
- success
- Failure

255. Once the DLL is loaded, the programmer needs to obtain _____into the DLL for an entry point.
- Dynamic address
- Physical address
- Bus address
- Procedure Address

256. We write and _____function in DLL and invoke them explicitly
- Compile
- Encrypt
- decrypt
- Encapsulate

257. In DLLs the executable library files are linked at_____time
- . Ans: Compile

258. Each DLL program will have its own copy of _____variables.
- Ans: Globle

259. In_____operating system DLLs are used to invoke all kernel services.
- Ans: Windows

260. Dynamic memory is allocated from the
- Cache
- Paging file
- Stack

- Static memory

261. Which of the following is recommended to use while dealing with memory mapped file to look for EXCEPTION_IN_PAGE_ERROR exception?
   - ESH exception handling
   - SHE exception handling
   - HE exception handling
   - HES exception handling

262. To create a file mapping object, we have to declare _____maximum parameters>
   - 4
   - 2
   - 6
   - 8

263. It is not possible for a system to map a file greater than _____Into virtual memory space, while using Win32 OS.
   - 2GB
   - 3MB
   - 3GB
   - 2MB

264. It is much_____- to sort large data available in memory rather than in files.
   - Harder
   - Costly
   - Unyielding
   - Ans: Easier

265. qsort() is a _____function.
   - Standard library
   - EXE
   - Windows DLL
   - User defined

266. When we create a file mapped object for sorting 1000 numbers in a file recorder will be saved in a/an_____-.
   - Heap
   - Stack
   - Queue
   - Ans: Array

267. Which of the following are the number of parameters taken by MapViewFile()?
   - 2
   - 4
   - 3

- 5

268. While using MapViewOfFile(), which of the following are the three commonly used flags?
- FILE_WRITE, FILE_READ, AND FILE_ALL_ACCESS
- FILE_MAP_WRITE, FILE_MAP_READ,AND FILE_MAP_ALL_ACCESS
- MAP_WRITE,MAP_READ, AND MAP_AL_ACCESS
- WRITE, READ, AND ALL_ACCESS

269. _____and _____specify the starting address of the file from where the mapping starts.
- High, low
- dwFileHigh,dwFileLow
- dwFileOffsetHigh, dwFileOffsetLow
- dbFileOffsetHigh, dbFileOffsetLow

270. To start the mapping from the start of a file, set both dwFileOffsetHigh and dwFileOffsetLow as_____.

271. unmapViewOfFile() takes _____argument(s)
- . 2
- 1
- 4
- 3

272. Which of the following are the number of parameters taken by CreateFileMapping()?
- 6
- 7
- 5
- 4

273. _____ Is the API for file mapping objects.
- MakeFileMapping()
- CreateFileMapping()
- FilecreateMapping()
- Create_file_Mapping()

274. While using CreateFileMapping(),_____refers to the paging file.
- LPSECURITY_ATTRIBUTES
- PSECURITY_ATTRIBUTES
- INVALID_HANDLE_VALUES
- INVALID_VALUES

275. While using CreatFileMapping(),_____allows the mapping object to be secured.
- LPSECURITY_ATTRIBUTES

- ❖ PSECURITY_ATTRIBUTES
- ❖ INVALID_HANDLE_VALUES
- ❖ INVALID_VALUES

276. While using CreateFileMapping(), setting IpMapName to_____disables the map sharing.
- ❖ 0
- ❖ 1
- ❖ -1
- ❖ NULL

277. DLL stand for
- ❖ Direct layout library
- ❖ Dynamic link library
- ❖ Dynamic layout library
- ❖ Direct link library

278. The approach to gather all the source code and library functions after encapsulation into a single executable file, is called as _____
- ❖ Process linking
- ❖ Static linking
- ❖ Dynamic linking
- ❖ Thread linking

279. Each DLL program will have its own copy of _____variables.
- ❖ Global
- ❖ Local
- ❖ Dynamic
- ❖ Static

280. In _____operating system DLLs are used to invoke all kernel services.
- ❖ Windows
- ❖ Unix
- ❖ Linux
- ❖ Solaris

281. In DDLs the executable library files are linked at _____time.
- ❖ Link
- ❖ Run
- ❖ Compile
- ❖ Load

282. The entry point in DLL defined structure (DWORD) _____values.
- ❖ 8
- ❖ 4
- ❖ 2

- 16

283. ReadFile() and writeFile() functions perform much _____than memory mapped file processing
- Slower
- Faster
- Convenient
- Nimble

284. Which of the following controls the paging file?
- The pager
- Direct memory access
- Memory mapped I/o
- Virtual memory management system

285. While using memory mapped I/O there is/are _____to manage buffers for repetitive operation on the file operations.
- Needed
- Not needed
- Useful
- Mandatory

286. In order to make a program more efficient, _____heap(s) may be required.
- partial
- only one
- several
- Minimum number of

287. There are _____parameters taken by the HeapCreate() API.
- 3
- 2
- 1
- 4

288. The parameter "flOptions" in the HeapCreate() API is a combination of _____ flags.
- 2
- 4
- 3
- 1

289. A process can have _____heap(s).
- Only two
- At the most one
- only one
- Many

290. _____API is used to create a new heap.

- createHeap()
- HeapCreate()
- BuildHeap()
- NewHeap()

291. If threads have separate memory space, then it will reduce_____

- Memory contention
- Access speed
- Direct memory access
- Memory density

292. _____is an appropriate API to dispose-off a heap handle.

- shudderHandle()
- DestroyHandle()
- DeleteHeap()
- HeapDestroy()