CBSE NET

Q. Consider an array A[20, 10], assume 4 words per memory cell and the base address of array A is 100. What is the address of A[11, 5] ? Assume row major storage.

- (A) 560
- (B) 565
- (C) 570
- (D) 575
- Ans: (A)

Explanation:

Formula for calculating address of element in row major and column major order is as shown in below image.

Row major, Address of ALI,J] = B+ w (Nc (1-Lr)+(J-Lc) Column major, Address of $AE1, JJ = B + \omega(N_Y(J-L_c) + (I-L_Y))$

Where,

B=Base address, w=element size, Nc=number of column, Nr=number of row, Lc=column lower bound, Lr=row lower bound.

Using formula of row major,

Address of (11,5) = 100 + 4(10(11-0) + (5-0)) = 100 + 4(115) = 560.

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- 95. Compare Paging and Segmentation?
- 96. What is Process Scheduling, CPU Scheduling, Disk Scheduling? Explain Short, Medium and Long term Scheduler?
- 97. Explain concept of a process with its components ?
- 98. Explain the following in brief Contiguous and Linked list allocation for implementing file system?
- 99. Explain various Disk scheduling algorithms with Illustrations ?
- 100. Define process and thread. What is PCB ? Explain its various entries with their usefulness ?
- 101. Discuss advantages and disadvantages of the Buffer cache ?
- 102. Explain different types of OS with examples of each ?
- 103. What is an Operating System? Write down its desirable characteristics ?
- 104. Define a deadlock ? Write down the conditions responsible for deadlock? How can we recover from deadlock ?
- 105. What are the various services provided by Operating system ?
- 106. What do you mean by PCB? Where is it used? What are its contents? Explain.
- 107. What is Binary and Counting semaphores ?

- 108. What is File? What are the different File attribute and operations?
- 109. What are System call? Explain briefly about various types of system call provided by an Operating System?
- 110. Describe necessary conditions for deadlocks situation to arise.
- 111. What are points to be consider in file system design? Explain linked list allocation in detail?
- 112. Write a Semaphore solution for dining Philosopher's problem?
- 113. Consider the following page reference string:1,2,3,4,5,3,4,1,2,7,8,7,8,9,7,8,9,5,4,5.
 How many page faults would occur for the following replacement algorithm, assuming four frames:a) FIFOb) LRU
- 114. Explain CPU schedulers in operating system?
- 115. Write the different state of a process with the help of Process state deagram?
- 116. What is Mutex in operating system?
- 117. Explain Network operating system?
- 118. What do you mean by paging in operating system ?