Question 7 Answer:

Set A

Let's consider the following code: var WORD 3 DUP(5), 0, ?, '?', 4 DUP(2 DUP(3))

- (a) list all the items in the array. (5 points)
- (b) What is the total size of the array (in Bytes)?

Answer:

- (b) There are 14 items in the array Each item is 2-byte long.Total size = 14 * 2 = 28 Bytes

Set B

Let's consider the following code: var WORD (3 DUP (2 DUP('ab')), ?, ?, 5

- (a) list all the items in the array. (5 points)
- (b) What is the total size of the array (in Bytes)?

Answer:

- (a) The list is: 'ab', 'ab', 'ab', 'ab', 'ab', uninitialized-value, uninitialized value, 5
- (b) The size of the array:
 We have 6 pair of characters -'ab'
 Total number of items = 6+3 = 9
 Each item is 2-byte long.
 Total size = 9*2 = 18 bytes