

**Q13.** A singly linked list is implemented using two arrays VALUE and LINK, in which LINK (I) points to the successor of VALUE (I) . When a new element that does not exist initially in the list is assigned to VALUE (J) , the program fragment shown below is executed. Which of the following appropriately describes the function of this program?

```
LINK (J)  <-  LINK (I) ;  
LINK (I)  <-  J ;
```

- a) VALUE (I) is replaced by VALUE (J) in the list.
- b) VALUE (J) is inserted after VALUE (I) in the list.
- c) VALUE (J) is inserted before VALUE (I) in the list.
- d) VALUE (J) is replaced by VALUE (I) in the list.