

9. num = 5;  
 10 store in array.  
 10  
 15 print the array.  
 5  
 2  
 10 20 15 5 2

0. LEAD operations → <sup>practise</sup>  
 → creation → delete  
 → add

0. Syntax error: Compile-time error.  
 0. Logical error: Run-time error.  
 The → Memory Job explanation

C: int[] num = new int[5];  
 U: 

0	0	0	0	0
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 arr[0] = 10;  
 arr[3] = 20;

R: int firstMark = arr[0];  
 cout << firstMark;

0. Memory working of array:

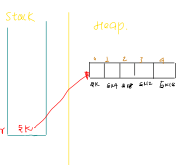
Primitives variables  
 int  
 string  
 char  
 Non-primitives  
 DS  
 array.

0. Stack, Heap

int k = 10;

arr 20

int[] arr;  
 arr = new int[5];



arr[0] = 10;  
 arr[1] = 10

arr[0] = 20  
 arr[1] = 20  
 arr[2] = 20

Implications:

i) Performance: int[] arr = new int[1000];  
 constant time → arr[10] = 20; ←  
 time → arr[999] = 20; ←  
 arr[0] = 20  
 arr[999] = 20

ii) Assignment:

shallow copy: Non-primitive

deep copy: primitive.

iii) Related to methods (functions).