HOMEWORK DAY: 08

09 September 2023 14:04

HW CLASS:08 8/9/23

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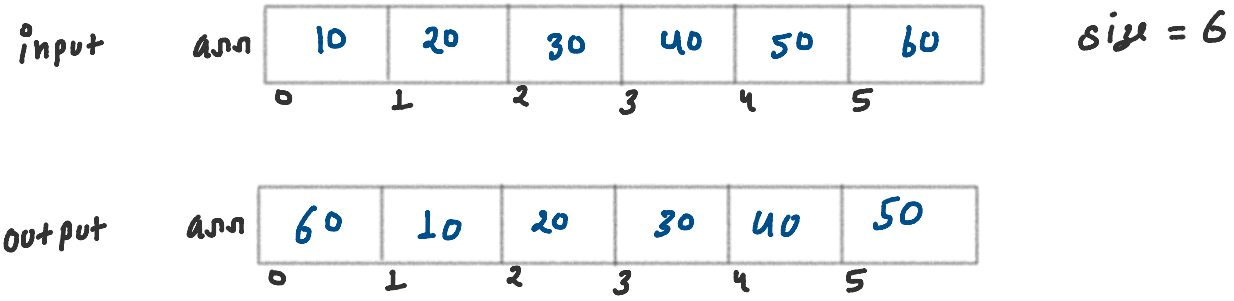
Program 01: Shift array's element by one (right to left)



PSEUDO Code →

① temp = arr[size-1]

② i = size-1 and

shift → arr[i] = arr[i-1];

i--

③ start arr[0] = temp;

```
// Shift array's element by one
void shiftArray(int arr[],int size){
    // Step 01
    int temp = arr[size-1];

    // Step 02
    // Shift --> arr[i]=arr[i-1]
    for(int i=size-1;i>=1;i--){
        arr[i]=arr[i-1];
    }

    // Step 03 Copy temp at index zero
    arr[0]=temp;
}
```

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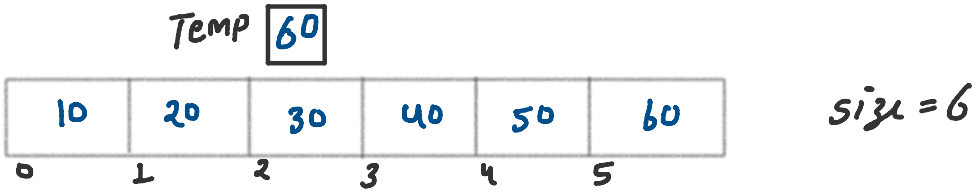
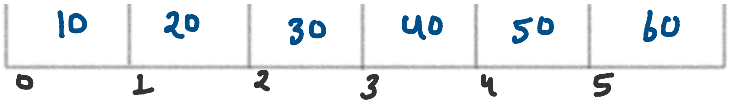
DRY RUN

Situation 1



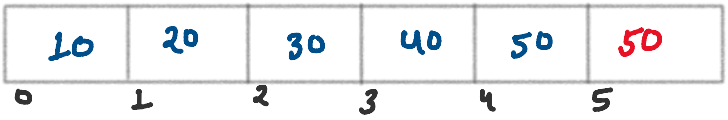
Situation :1



size = 6

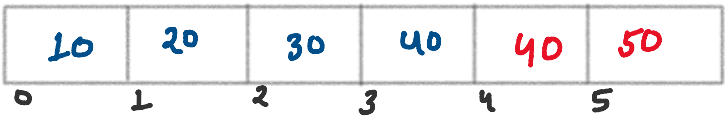
i=5 arr[5] = 50
i--

Situation :2



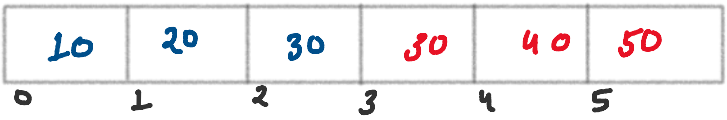
i=4 arr[4] = 40
i--

Situation :3



i=3 arr[3] = 30
i--

Situation :4

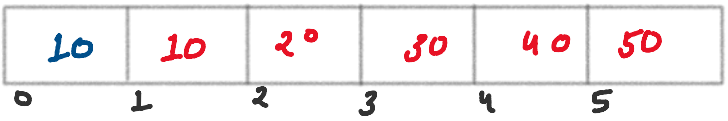


i=2 arr[2] = 20
i--

Situation :5

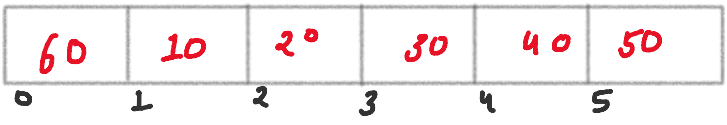
i=1 arr[1] = 10
i--

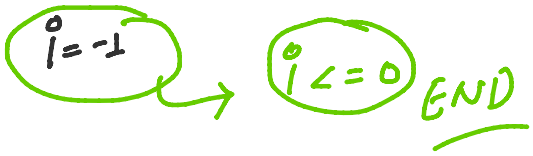
Situation :6



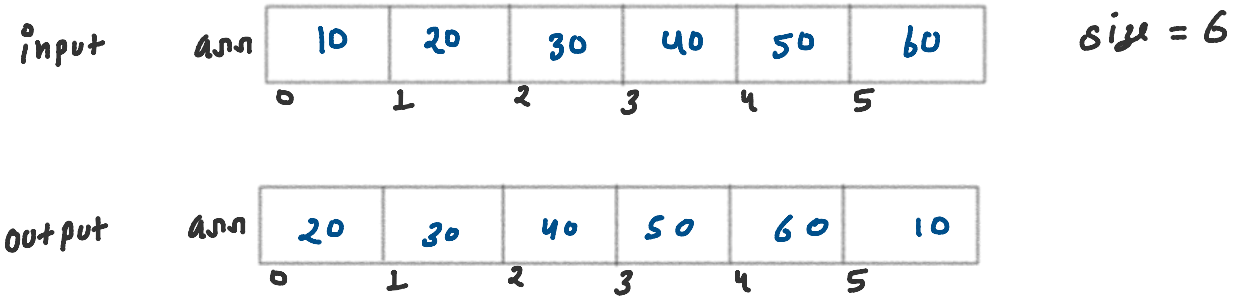
i=0 arr[0] = temp when i==0
i--

Situation :7





Program 02: Shift array's element by one (left to right)



PSEUDO Code →

1. temp = arr[0]
2. i=0 && shift arr[i] = arr[i+1] i++
3. copy temp at last

```
// Shift array's element by one
void shiftArray(int arr[],int size){
    // Step 01 Store first element
    int temp = arr[0];

    // Step 02 Shift --> arr[i]=arr[i+1]
    for(int i=0;i<size-1;i++){
        arr[i]=arr[i+1];
    }

    // Step 03 Copy temp at index last
    arr[size-1]=temp;
}
```

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