Program 1: Find Maximum and Minimum array

$$i=1$$
 $275 \times 975 \times 975$

$$minV =$$

$$minV = 1$$

 $manV = 1$
 $minV = 1$

Homework: Find the second smallest element in the given array.

Step1: Find min no. =) min Step2: Find second smallest element

Program 2: Update Array | Pass by Reference

```
Before:5
  void variableChange(int x){
 √int main(){
     \checkmarkint x=5;
     vcout<<"Before :"<<x<end1;</pre>
     wariableChange(x);`
     cout<<"After :"<<x<endl;</pre>
 void arrayChange(int arr[]){
      arr[1]=20;
_int main(){
    _int arr[]={1,2,3};
        cout<<"Before :"<<endl;</pre>
      for(int i=0; i<3; i++){
                                                                      10
          cout<<arr[i]<<endl;</pre>
      }
                                                           Bejore 1
        cout<<"After :"<<endl;</pre>
        arrayChange(arr);
                                                             3
         for(int i=0; i<3; i++){
          cout<<arr[i]<<endl;</pre>
                                                           After !
```

Program3: Calculate sum of array elements

}

Homework: Calculate product of array elements

aron =
$$\frac{3}{1}$$
, $\frac{1}{2}$, $\frac{3}{3}$
=) $1 + 2 + 3$
=) $6/1$

Program4: Take input from user

Program5: Take user input and update value

Program6: Reverse array
$$avol = \{ \frac{1}{1}, \frac{1}{2}, \frac{3}{3}, \frac{1}{4}, \frac{5}{3} \}$$

Dutput $5, \frac{4}{13}, \frac{3}{2}, \frac{1}{1}$
 $n = 5$
 $n = 1$
 $i = n - 1$; $i > 0$; $i = -1$
 $i = 4$
 $i = 3$
 $i = 3$

Question: Are these declarations are correct?

int
$$num()$$
; int $aun()$; int $aun()$; int $aun()$ = $\{1, 7, 9\}$ interest $\{1, 7, 9\}$

Question: What this expression refers?

and [6];

int and [6];

int and [6];

int and [6];

array

int and [6];

Homework: What will happen when this code is executed?

Homework: Given an integer n, create an array containing the cubes of all natural numbers from 1 to n. Then print the elements of the array.

$$n = 5$$

 $ava = [1, 2, 3, 4, 5]$ $ava = [1, 2, 3]$ Comment
 $(18, 27, 64, 125)$ $(i=1; i=0)$

Program7: Given an array of integers, modify it such that:

- Odd indexed elements are multiplied by 5
- Even indexed elements are incremented by 1

Then print the updated array.

Homework: Find the difference between the sum of elements at odd indices and the sum of elements at even indices

Even =
$$4+7+10=721$$

 $0dd = 5+9=714$

Program8: Count the number of elements in a given array that are less than a given number x.

$$x = 9$$
 = 9 =

x= input

Program9:Write a program to copy the contents of one array into another in the reverse order

$$avi[5] = \{5, 4, 3, 2, 1\}$$
 $num[5] = \{1, 2, 3, 4, 5\}$
 $num[6] = avii[n-1-i]$
 $vii[1] = avii[n-1-i]$
 $vii[2] = avii[n-1-i]$
 $vii[3] = avii[n-1-i]$

Program10: Write a program to reverse an array without using any extra array

and = < 5, 4, 3, 2, 13

$$E0 = \{1, 2, 3, 4, 5\}$$

$$E1 = \{1, 2, 3, 2, 1\}$$

$$E1 = \{1, 4, 3, 2, 1\}$$

1=2 ,265 V {1,2,3,2,1) avr(2) = 3 n-1-1 5-1-2i=3 , 3 < 5 V ξi, 2,3,2,1) arr [3] = 2 n -1 - 1 5-1-3 1=4, 4CEV 20164)=1 1=5,525X 1=5,525X (81,2,3,2,1) Swap & (5),4,3,2,13 i = 0tenp=5 av(6) = av(n-i-1) = 1.1 $\{1, 4, 3, 2, 5\}$ avy (n-i-1) = temp

Homework: If an array arr contains n elements, then check if the given array is a palindrome or not

 $avor = \{i, i, i, j, 3\}, \frac{2}{2}, \frac{1}{2}, \frac{1}$