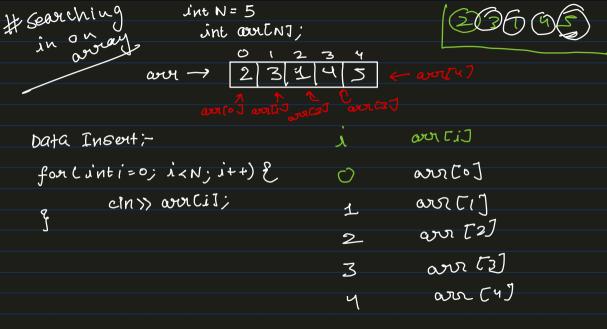
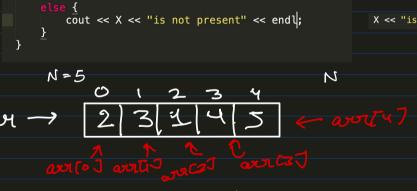
define Asway <date-type> <vor_name>[<size>]; int ann [2-] storing arr [5] float ave [5]

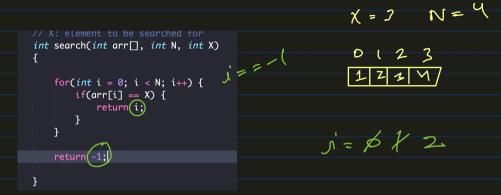


for (int i = 0; i < N; i++) {
 if (arr[i] == \mathbf{X}) {
 cout << X << " is Present at " << i << endl;
 break;
 }
 else {
 cout << X << "is not present" << endl;
 }
}</pre>

 X << "is not present" << endl;
}</pre>



lk



To Symplement Ruogeam from scratch

Input

Process

output

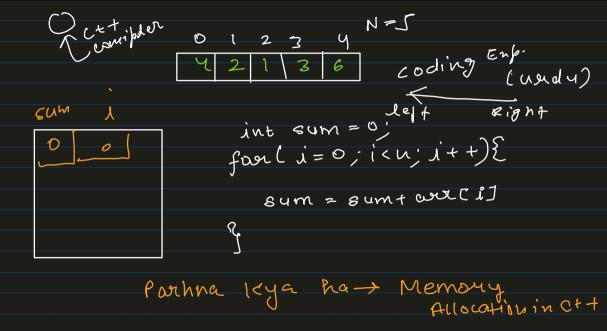
Sum of Astray

Hint

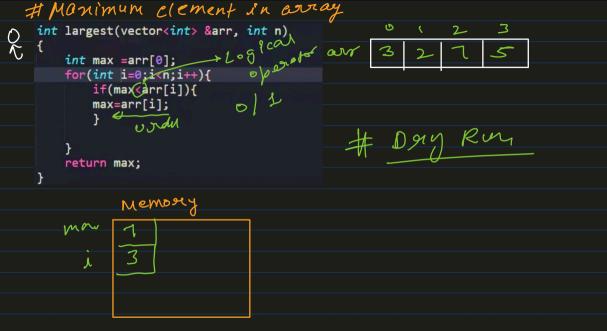
0 1 2 3 9

4 2 1 3 6

oum = aviro] + aviri] + aviry



116lock of Memory. Variables defined inside a block will foor (inti=0; icn; itt) be destroyed from the memory when 4 // B/OCK the block ends. If Condition) ? 11Block while (cndn) of 1/block



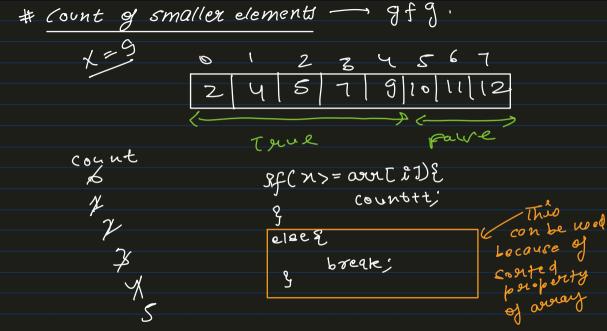
```
* n = size of average * intounting
```

```
# Process
```

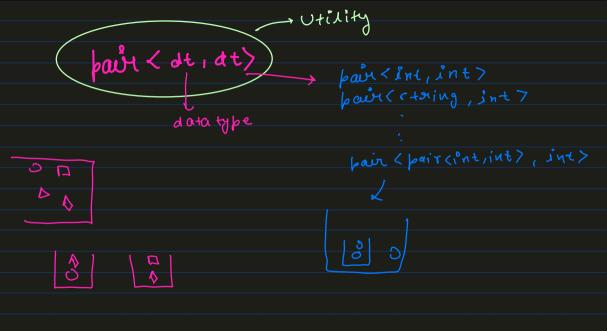
* man - wor to] & find manimum

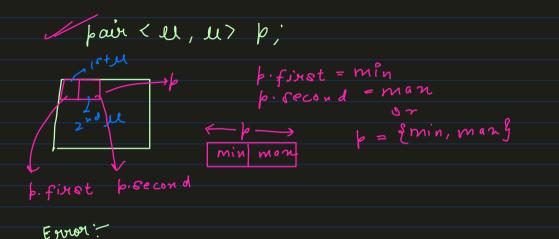
* maximum element boint kako

Output



```
Find minimum & manimum in away - ofy
  une ~ -109 to 109
dong dong a -10'e to 18 8
  mon - Largest
                      ह द्वानु
  min - emallect
  of (min) aut [1] fassignment
operator
      min=autij;
   if I man < ourtil) {
     man = ourci];
```





(1) gredeclaration of long long lint min & man

you have nedefined the same variable more that

ll → long long

Constraints:

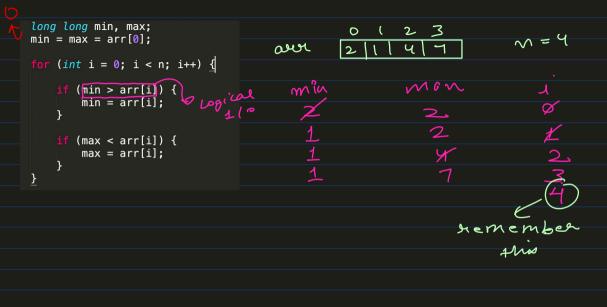
$$1 \le N \le 10^5$$

 $1 \le A_i \le 10^{12}$

n -> size of our ay intalos Unlois intalos Malois N ~ 10/2 0(10/2)

TC-O(n) - O(105)

Luis min not



loop -> continue; Hint -> Indening & all & or 124

of an ownay:

Paint alternate elements

int
$$a = 4$$
;

 $a = a/3$;

 $a = a/3$;

Math $\rightarrow 4 = 1.333...$
 $a = a^{3}$
 $a = a^{3}$

Math $\rightarrow 4 = 1.333...$
 $a = a^{3}$
 $a = a^{3}$

1 mahine → website

Check of two arrays are equal or not

Check if two arrays are equal or not
Basic Accuracy: 50.0% Submissions: 63279 Points: 1

Given two arrays **A** and **B** of equal size **N**, the task is to find if given arrays are equal or not. Two arrays

Given two arrays A and B or equal size M, the clask is to find if given arrays are equal or not. Two arrays are said to be equal if both of them contain same set of elements, arrangements (or permutation) of elements may be different though.

Note: If there are repetitions, then counts of repeated elements must also be same for two array to be equal.

Example 1:

Input: N = 5

 $A[] = \{1,2,5,4,0\}$ $B[] = \{2,4,5,0,1\}$

Output: 1
Explanation: Bo

Explanation: Both the array can be rearranged to {0,1,2,4,5}

Example 2:

Input:

 $A[] = \{1,2,5\}$ $B[] = \{2,4,15\}$

B[] = {2,4,15} Output: 0

Explanation: A[] and B[] have only one common value.

Your Task:

Complete **check()** function which takes both the given array and their size as function arguments and returns **true** if the arrays are equal else **returns false**. The 0 and 1 printing is done by the driver code.

Expected Time Complexity: 0(N)
Expected Auxilliary Space: 0(N)

Khud Karo

some basic keyboard operations:-

Contle X -, Cut

cottet V -, Paste

Contl+S -> Save

Crtlt Z - unde

Contl f Shift t Z - Redo

```
of Find and Laugest
                                          2 6 10 2 10 8
   int max = arr[0];
   for (int i = 0; i < n; i++) {
      if (max < arr[i]) {</pre>
                                         max=10
          max = arr[i];
                                         mon2 = 2
                                                                 1=$
   int \max 2 = arr[0];
   for (int i = 0; i < n; i++) {
       if (max == arr[i]) {
                                                                     2
                                           Test case one failing?
       if (max2 < arr[i]) {</pre>
                                 Why
          max2 = arr[i];
                                                debug .
   cout << max2 << endl;</pre>
```

31012 man 2 = - 1

so why test cases are failing?

31012 man 2 = -1

```
for (int i = 0; i < n; i++) {

if (max == arr[i]) {

continue;
}

if (max2 < arr[i]) {

max2 = arr[i];
}

intialize kare?
```

$$1 \mid 0 \mid 1 \mid 0 \mid 1 \mid 0$$

$$-2147483647 \approx -10$$

$$man2 = -\infty \rightarrow INT_MIN.$$

$$2 \rightarrow 0$$

$$LLONG_-MIN$$

$$2 \rightarrow -10^{18}$$

$$LLONG_-MAX \approx 10^{9}$$

$$LLONG_-MAX \approx 10^{9}$$

CLONG-MIN LIONG-MAX



If we list all the natural numbers below 10 that are multiples of 3 or 5, we get 3,5,6 and 9. The sum of these multiples is 23.

Find the sum of all the multiples of 3 or 5 below N.

N=20

$$3+6+9+12+15+18=63$$

 $5+10+20=25$

N=10

Hint: Arithematic Progression

$$L_1 = \left\lfloor \frac{N}{3} \right\rfloor \times 3 \qquad N=10$$

$$L_2 = \left\lfloor \frac{N}{5} \right\rfloor \times 5$$

$$= \lfloor \frac{N}{5} \rfloor \times 5$$

 $S_{n} = (2q + (n-1)d)$

 $Sn = \frac{n}{2}(a+l)$

$$5 \times f = 25$$

$$Sn = 2 \left[a + 1 \right] = \frac{\left| \frac{N}{5} \right|}{2} \left[5 + \left| \frac{N}{5} \right| K \right]$$

$$Sn = 2 \left[a + 1 \right] = \left[\frac{N}{5} \right] \left[5 \right]$$

$$L_1 = \begin{bmatrix} 1 \\ 3 \end{bmatrix}$$

$$3 6 9 12 15 18 21 24 27 3 \cdots L_1$$

$$L_2 = \begin{bmatrix} 1 \\ 5 \end{bmatrix}$$

$$5 10 15 20 25 30 \cdots L_2$$

$$S \rightarrow S = \frac{\lfloor \frac{1}{3} \rfloor}{2} \left[3 + 3 \lfloor \frac{N}{3} \rfloor \right]$$

$$S \rightarrow S = \frac{\lfloor \frac{N}{3} \rfloor}{2} \left[S + 5 \lfloor \frac{N}{3} \rfloor \right]$$

$$f(n) = \lfloor \frac{N}{3} \rfloor / 2 \left(3 + 3 \lfloor \frac{N}{3} \rfloor \right) + \lfloor \frac{N}{3} \rfloor / 2 \left(5 + 5 \lfloor \frac{N}{5} \rfloor \right)$$

$$- \lfloor \frac{N}{3} \rfloor / 2 \left(15 + 15 \cdot \lfloor \frac{N}{3} \rfloor \right)$$

https://www.hackerrank.com/ contests/projecteuler/challenges/

euler001/problem