Name: Muhammad Uzair

Roll No. L1F18BSCS0311

Section - F

You have an array A of size N, populated with integer values **[-ve, 0, +ve]**, Not sorted. You have to design a solution that will find two integer values , such that **|x - y|** should be the maximum **[absolute of the difference should be maximum].**For solution you have to think that which two values of x and y will result in the desired solution. First understand the question and find the two value then after that solve the problem to find these two values through your solution. Your solution should use minimum possible operations.

**#include<iostream>**

**using namespace std;**

**int main()**

**{**

**int n = 10;**

**int A[n] = {-11, 2, 3, 4, -7, 12, 15, -9, 22, 1};**

**int difference = -2147483647;**

**int value1,value2,result;**

**for(int index = 0; index < n; index++)**

**{**

**for(int j = 0; j < n; j++)**

**{**

**if(index == j)**

**{**

**continue;**

**}**

**else**

**{**

**result = A[index] - A[j];**

**if(result < 0)**

**{**

**result = result \* -1;**

**}**

**if(result > difference)**

**{**

**difference = result;**

**value1 = A[index];**

**value2 = A[j];**

**}**

**}**

**}**

**}**

**cout<<"Maximum difference is "<<difference<<" of "<<value1<<" and "<<value2;**

**return 0;**

**}**

You have an array A of size N, populated with integer values **[-ve, 0, +ve]**, Not sorted. You have to design a solution that will find two integer values , such that **|x - y|** should be the minimum **[absolute of the difference should be minimum].**For solution you have to think that which two values of x and y will result in the desired solution. First understand the question and find the two value then after that solve the problem to find these two values through your solution. Your solution should use minimum possible operations.

#include<iostream>

using namespace std;

int main()

{

int n = 10;

int A[n] = {-11, 2, 3, 4, -7, 12, 15, -9, 22, 1};

int difference = 2147483647;

int value1 , value2, result;

for(int index = 0; index < n; index++)

{

for(int j = 0; j < n; j++)

{

if(index == j)

{

continue;

}

else

{

result = A[index] - A[j];

if(result < 0)

{

result = result \* -1;

}

if(result < difference)

{

difference = result;

value1 = A[index];

value2 = A[j];

}

}

}

}

cout << "Minimum difference is " << difference << " of " << value1 << " and " << value2;

return 0;

}