CSES Problem Set

Sum of Two Values

Submission details

Task:	Sum of Two Values
Sender:	josueMamani
Submission time:	2025-11-13 04:15:25 +0200
Language:	C++ (C++17)
Status:	READY
Result:	ACCEPTED

Test results

test	verdict	time	
#1	ACCEPTED	0.00 s	»
#2	ACCEPTED	0.00 s	»
#3	ACCEPTED	0.00 s	»
#4	ACCEPTED	0.00 s	»
#5	ACCEPTED	0.00 s	»
#6	ACCEPTED	0.00 s	»
#7	ACCEPTED	0.00 s	»
#8	ACCEPTED	0.05 s	»
#9	ACCEPTED	0.02 s	»
#10	ACCEPTED	0.02 s	»
#11	ACCEPTED	0.13 s	»
#12	ACCEPTED	0.13 s	»
#13	ACCEPTED	0.00 s	»
#14	ACCEPTED	0.00 s	»
#15	ACCEPTED	0.00 s	»
#16	ACCEPTED	0.07 s	»
#17	ACCEPTED	0.00 s	»
#18	ACCEPTED	0.00 s	»
#19	ACCEPTED	0.00 s	»
#20	ACCEPTED	0.00 s	»
#21	ACCEPTED	0.07 s	»
#22	ACCEPTED	0.06 s	»
#23	ACCEPTED	0.09 s	»
#24	ACCEPTED	0.09 s	»
#25	ACCEPTED	0.00 s	»

Sorting and Searching

...

Concert Tickets –
Restaurant Customers –
Movie Festival –
Sum of Two Values ✓
Maximum Subarray Sum –
Stick Lengths –
Missing Coin Sum –
Collecting Numbers –

...

Your submissions

2025-11-13 04:15:25 ✓
2025-11-13 04:02:25 ×
2025-11-13 03:36:55 ×
2025-11-11 04:26:18 ×

test	verdict	time	
#26	ACCEPTED	0.11 s	»
#27	ACCEPTED	0.00 s	»

Code

```cpp
#include<bits/stdc++.h>
using namespace std;

int main(){
    int n;
    long long x;
    cin>>n>>x;
    unordered_map<long long,int> mapa;
    for(int h=0; h<n;h++){
        long long v;
        cin>>v;
        if(v<=x){
        long long comple=x-v;
        if(mapa.find(comple)!=mapa.end()){
            cout<<h+1<<endl;
            cout<<mapa[comple]+1;
            return 0;
        }
        mapa[v]=h;
        }
    }

    cout<<"IMPOSSIBLE"<<endl;
    return 0;
}
```

SHARE CODE TO OTHERS

Test details

Test 1

Verdict: ACCEPTED

input
1 2 1

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 2

Verdict: ACCEPTED

input
3 2 1 2 3

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 3

Verdict: ACCEPTED

input
3 3 2 1 3

correct output
2 1

user output
2 1

Test 4

Verdict: ACCEPTED

input
3 4 1 3 2

correct output
1 2

user output
2 1

Test 5

Verdict: ACCEPTED

input
3 5 1 2 3

correct output
2 3

user output
3 2

Test 6

Verdict: ACCEPTED

input
3 6 1 3 2

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 7

Verdict: ACCEPTED

input
200000 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 ...

correct output
1 200000

user output
2 1

Test 8

Verdict: ACCEPTED

input
200000 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 ...

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 9

Verdict: ACCEPTED

input
200000 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 ...

correct output
6608 91823

user output
91823 6608

Test 10

Verdict: ACCEPTED

input
200000 776363847 455945418 228967652 595627548 ...

correct output
51058 166896

user output
23839 11768

Test 11

Verdict: ACCEPTED

input
200000 1000000000 999892103 999784206 999676309 ...

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 12

Verdict: ACCEPTED

input
200000 1000000000 999934464 999868928 999803392 ...

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 13

Verdict: ACCEPTED

input
3 8 4 5 3

correct output
3 2

user output
3 2

Test 14

Verdict: ACCEPTED

input

```
2 1000000000
999999999 1
```

correct output

```
2 1
```

user output

```
2
1
```

Test 15

Verdict: ACCEPTED

input

```
3 1000000000
500000000 1 500000000
```

correct output

```
1 3
```

user output

```
3
1
```

Test 16

Verdict: ACCEPTED

input

```
200000 2
2 2 3 4 5 6 7 8 9 10 11 12 13 ...
```

correct output

```
199998 200000
```

user output

```
199999
199998
```

Test 17

Verdict: ACCEPTED

input
1 2 2

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 18

Verdict: ACCEPTED

input
4 7 7 7 7 7

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 19

Verdict: ACCEPTED

input
5 6 1 1 1 1 1

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 20

Verdict: ACCEPTED

input

```
2 6
1 4
```

correct output

```
IMPOSSIBLE
```

user output

```
IMPOSSIBLE
```

Test 21

Verdict: ACCEPTED

input

```
200000 1
1048577 6 31 156 781 3906 1953...
```

correct output

```
IMPOSSIBLE
```

user output

```
IMPOSSIBLE
```

Test 22

Verdict: ACCEPTED

input

```
200000 1
1048577 7 36 181 906 4531 2265...
```

correct output

```
IMPOSSIBLE
```

user output

```
IMPOSSIBLE
```

Test 23

Verdict: ACCEPTED

input

```
200000 1
1 172934 345867 518800 691733 ...
```

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 24

Verdict: ACCEPTED

input
200000 2 3 172934 345867 518800 691733 ...

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 25

Verdict: ACCEPTED

input
2 2 1 1

correct output
1 2

user output
2 1

Test 26

Verdict: ACCEPTED

input
200000 1000000000 5334500 1832108 5253376 318919...

correct output
IMPOSSIBLE

user output
IMPOSSIBLE

Test 27

Verdict: ACCEPTED

input
4 4 3 3 1 2

correct output
3 2

user output
3 2