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Pointer ☆

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A pointer in C is a way to share a memory address among different contexts (primarily functions). They are primarily used whenever a function needs to modify the content of a variable, of which it doesn't have ownership.

In order to access the memory address of a variable, val, we need to prepend it with & sign. E.g., &val returns the memory address of val.

This memory address is assigned to a pointer and can be shared among various functions. E.g. $int^*p = \&val$ will assign the memory address of val to pointer p. To access the content of the memory to which the pointer points, prepend it with a \star . For example, $\star p$ will return the value reflected by val and any modification to it will be reflected at the source (val).

```
void increment(int *v) {
   (*v)++;
int main() {
   int a;
   scanf("%d", &a);
   increment(&a);
   printf("%d", a);
   return 0;
}
```

You have to complete the function void update(int *a,int *b), which reads two integers as argument, and sets a with the sum of them, and **b** with the absolute difference of them.

- a' = a + b
- b' = |a-b|

Input Format

Input will contain two integers, \boldsymbol{a} and \boldsymbol{b} , separated by a newline.

Output Format

You have to print the updated value of \boldsymbol{a} and \boldsymbol{b} , on two different lines.

P.S.: Input/ouput will be automatically handled. You only have to complete the void update(int *a,int *b) function.

Sample Input

4



```
Sample Output \begin{array}{c} 9 \\ 1 \end{array} Explanation  \bullet \ a' = 4 + 5 = 9 \\ \bullet \ b' = |4 - 5| = 1 \end{array}
```

```
K N SS
                                                                      C++
      #include <stdio.h>
  1
  2
  3
      void update(int *a,int *b) {
  4
           // Complete this function
  5
      }
  6
  7
      int main() {
  8
           int a, b;
  9
           int *pa = &a, *pb = &b;
 10
           scanf("%d %d", &a, &b);
 11
 12
           update(pa, pb);
 13
           printf("%d\n%d", a, b);
 14
 15
           return 0;
 16
      }
 17
 18
                                                                                         Line: 1 Col: 1
1 Upload Code as File
                   ■ Test against custom input
                                                                          Run Code
                                                                                         Submit Code
```

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