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Pointers in C ★

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Objective

In this challenge, you will learn to implement the basic functionalities of pointers in C. 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 that it does not own.

In order to access the memory address of a variable, **val**, prepend it with **&** sign. For example, `&val` returns the memory address of **val**.

This memory address is assigned to a pointer and can be shared among various functions. For example, **`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 *****. For example, `*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;
}
```

Task

Complete the function `void update(int *a, int *b)`. It receives two integer pointers, `int* a` and `int* b`. Set the value of **a** to their sum, and **b** to their absolute difference. There is no return value, and no return statement is needed.

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

Input Format

The input will contain two integers, **a** and **b**, separated by a newline.

Output Format

Modify the two values in place and the code stub `main()` will print their values.

Note: Input/output will be automatically handled. You only have to complete the function described in the 'task' section.

Sample Input

```
4
5
```

Sample Output

```
9
1
```

Explanation

- $a' = 4 + 5 = 9$
- $b' = |4 - 5| = 1$

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```
1  #include <stdio.h>
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
11     scanf("%d %d", &a, &b);
12     update(pa, pb);
13     printf("%d\n%d", a, b);
14
15     return 0;
16 }
```

Line: 11 Col: 1

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