

### Code, Compile & Run

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C++14 (gcc 6.3)

Code gets auto saved every second

```
1 #include <stdio.h>
2 void swap(int *a,int *b)
3 {
4     int t;
5     t = *a;
6     *a = *b;
7     *b = t;
8 }
9 int main()
10 {
11     int num1,num2;
12     printf("Enter value of num1: ");
13     scanf("%d",&num1);
14     printf("Enter value of num2: ");
15     scanf("%d",&num2);
16     printf("Before Swapping: num1=%d, num2=%d\n",num1,num2);
17     swap(&num1,&num2);
18     printf("After Swapping: num1=%d, num2=%d\n",num1,num2);
19     return 0;
20 }
```

Open File

Custom Input

Run

Custom Input

10 20

Status Successfully executed

Date 2020-06-28 03:28:48

Time 0 sec

Mem 15.232 kB

Input

10 20

Output

Enter value of num1: Enter value of num2: Before Swapping: num1=10, num2=20  
After Swapping: num1=20, num2=10

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## Algorithm

step 1 : start

step 2 : Initialize two variables  $x, y, temp$  and two pointers  $*a$  and  $*b$

step 3 : Entry the two numbers and store it in the  $x$  and  $y$

step 4 : Display the numbers you have entered

step 5 : store the address of  $x$  and  $y$  to ' $a$ ' and ' $b$ ' respectively

step 6 : store the value in ' $b$ ' to  $temp$

step 7 : store the value in ' $a$ ' to ' $b$ ' pointer

step 8 : store the value in  $temp$  to ' $a$ ' pointer

step 9 : Display the numbers after swapping by using pointers  $a$  and  $b$

step 10 : stop.

Flowchart :

