

programiz

Online Compiler

```
1 #include <stdio.h>
2 void main(){
3     int a[5]={3,5,7,1,9};
4     int largest, smallest;
5     int i;
6     largest = a[0];
7     smallest = a[0];
8     for (i=1;i<5;i++)
9     {
10         if (a[i] > largest)
11         {
12             largest = a[i];
13         }
14         if(a[i] < smallest)
15         {
16             smallest = a[i];
17         }
18     }
19     printf("Largest number = %d\n",largest);
20     printf("Smallest number = %d\n",smallest);
21 }
```

Output

```
Largest number = 9
Smallest number = 1
===
Code Exited With Errors ===
```

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```
1 #include <stdio.h>
2 int fact(int n)
3 {
4     if (n == 0)
5         return 1;
6     else
7         return n * fact(n - 1);
8 }
9 void main()
10 {
11     int num = 5;
12     int result;
13     result = fact(num);
14     printf("Factorial = %d", result);
15 }
16
```

Output

```
Factorial = 120
===
Code Exited With Errors ===
```

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```
1 #include <stdio.h>
2 int fib(int n) {
3     if (n == 0)
4         return 0;
5     if (n == 1)
6         return 1;
7     return fib(n - 1) + fib(n - 2);
8 }
9 int main() {
10     printf("Fibonacci = %d", fib(6));
11     return 0;
12 }
13
```

Output

```
Fibonacci = 8
===
Code Execution Successful ===
```