1 .

```cpp
#include <iostream >
using namespace std;
int main() {
   int a = 10, b = 5, temp;
   temp = a;
   a = b;
   b = temp;
   cout<<"Value of a is "<<a<<endl;
   cout<<"Value of b is "<<b;
   return 0;
}
```

Output :
Value of a is 5
Value of b is 10

2 .

```cpp
#include <iostream>
using namespace std;
int main() {
   int a = 5 ,b = 1 ,c = 21;
   if(a>b) {
      if(a>c)
      cout<<a<<" is largest number";
      else
      cout<<c<<" is largest number";
   }else {
      if(b>c)
      cout<<b<<" is largest number";
      else
      cout<<c<<" is largest number";
   }
   return 0;
}
```

Output :
21 is largest number

3 .

```cpp
#include<iostream>
using namespace std;
int main()
{
    int yr;
    cout<<"Enter the Year: ";
    cin>>yr;
    if((yr%4==0) && (yr%100!=0))
        cout<<"\nIt is a Leap Year";
    else if(yr%400==0)
        cout<<"\nIt is a Leap Year";
    else
        cout<<"\nIt is not a Leap Year";
    cout<<endl;
    return 0;
}
```

Output :
Enter the year: 2019
It is not a leap year

Enter the year: 2012
It is a leap year

4 .

```cpp
#include <iostream>
using namespace std;
int main() {
  int n1=0,n2=1,n3,i,number;
 cout<<"Enter the number of elements: ";
 cin>>number;
 cout<<n1<<" "<<n2<<" ";
 for(i=2;i<number;++i)
 {
  n3=n1+n2;
  cout<<n3<<" ";
  n1=n2;
```

```
    n2=n3;
  }
    return 0;
    }
```

Output :
Enter the number of elements: 10
0 1 1 2 3 5 8 13 21 34

5 .

```cpp
#include <iostream>
using namespace std;
int main()
{
  int n, i, m=0, flag=0;
  cout << "Enter the Number to check Prime: ";
  cin >> n;
  m=n/2;
  for(i = 2; i <= m; i++)
  {
    if(n % i == 0)
    {
      cout<<"Number is not Prime."<<endl;
      flag=1;
      break;
    }
  }
  if (flag==0)
    cout << "Number is Prime."<<endl;
  return 0;
}
```

Output :
Enter the Number to check Prime: 17
 Number is Prime.

Enter the Number to check Prime: 57
Number is not Prime.

6 .

```cpp
#include <iostream>
using namespace std;

void triangle(int n)
{
        int k = 2 * n - 2;

        for (int i = 0; i < n; i++) {

                for (int j = 0; j < k; j++)
                        cout << " ";

                k = k - 1;

                for (int j = 0; j <= i; j++) {
                        cout << "* ";
                }

                cout << endl;
        }
}

int main()
{
        int n = 5;

        // Function Call
        triangle(n);
        return 0;
}
```

Output :
```
      *
     * *
    * * *
   * * * *
  * * * * *
```

7 .

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

```
void print2largest(int arr[], int arr_size)
{
        int i, first, second;

        if (arr_size < 2) {
                printf(" Invalid Input ");
                return;
        }

        sort(arr, arr + arr_size);

        for (i = arr_size - 2; i >= 0; i--) {
                if (arr[i] != arr[arr_size - 1]) {
                        printf("The second largest element is %d\n", arr[i]);
                        return;
                }
        }

        printf("There is no second largest element\n");
}

int main()
{
        int arr[] = { 12, 35, 1, 10, 34, 1 };
        int n = sizeof(arr) / sizeof(arr[0]);
        print2largest(arr, n);
        return 0;
}
```

Input : { 12, 35, 1, 10, 34, 1 }
Output : 34

8 .

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

void leftRotatebyOne(int arr[], int n)
{
        int temp = arr[0], i;
        for (i = 0; i < n - 1; i++)
                arr[i] = arr[i + 1];
```

```cpp
        arr[n-1] = temp;
}

void leftRotate(int arr[], int d, int n)
{
        for (int i = 0; i < d; i++)
                leftRotatebyOne(arr, n);
}

void printArray(int arr[], int n)
{
        for (int i = 0; i < n; i++)
                cout << arr[i] << " ";
}

int main()
{
        int arr[] = { 1, 2, 3, 4, 5 };
        int n = sizeof(arr) / sizeof(arr[0]);

        // Function calling
        leftRotate(arr, 2, n);
        printArray(arr, n);

        return 0;
}
```

Input : { 1, 2, 3, 4, 5 }
Output : { 3, 4, 5, 1, 2 }

9 .

```cpp
#include <map>
#include <set>
#include <list>
#include <cmath>
#include <ctime>
#include <deque>
#include <queue>
#include <stack>
#include <string>
```

```cpp
#include <bitset>
#include <cstdio>
#include <limits>
#include <vector>
#include <climits>
#include <cstring>
#include <cstdlib>
#include <fstream>
#include <numeric>
#include <sstream>
#include <iostream>
#include <algorithm>
#include <unordered_map>

using namespace std;


int main(){
int n;
cin >> n;
for(int a0 = 0; a0 < n; a0++){
int grade;
cin >> grade;
if (grade >= 38) {
int rem = grade % 5;
if (rem >= 3) grade += 5 - rem;
}
cout << grade << endl;
}
return 0;
}
```

Input :
4
73
67
38
33

Output :
75
67
40
33

10 .

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

int countWords(string str)
{
        int count = 1;

        for (int i = 1; i < str.length() - 1; i++) {
                if (isupper(str[i]))
                        count++;
        }

        return count;
}
int main()
{
        string str = "saveChangesInTheEditor";

        cout << countWords(str);

        return 0;
}
```

Input : saveChangesInTheEditor

Output : 5