1.Count the number of triplets whose sum is equal to the given value x. Solution:

```
#include <iostream>
using namespace std;
int main() {
int x;
cin>>x;
int A[5];
cout<<"Enter 5 elements for the array"<<endl;
for(int i=0;i<5;i++)cin>>A[i];
int count = 0;
for(int i = 0; i < 5; i++){
for(int j = i + 1; j < 5; j++){
for(int k = j + 1; k < 5; k++){
if(A[i] + A[j] == A[k])\{
Count++;
       }
     }
  }
cout<<count<<endl;
return 0;
```

2. Find the factorial of a large number.

Solution:

```
#include <iostream>
using namespace std;
int mul(int x, int res[], int res_size){
int carry = 0;
for (int i = 0; i < res_size; i++) {
int prod = res[i] * x + carry;
res[i] = prod % 10;
carry = prod / 10;
}
while (carry) {
res[res_size] = carry % 10;
carry = carry / 10;
res_size++;
}
return res_size;
int main() {
int n;
```

```
cin>>n;
int res[500];
res[0] = 1;
int res_size = 1;

3. Find the first nor Solution:

#include <iostream>
using namespace sto
int main() {
int arr[5]={1,2,2,4,7};
```

3. Find the first non-repeating element in the array . Solution:

```
using namespace std;
int main() {
int arr[5]={1,2,2,4,7};
int n=5;
for (int i = 0; i < n; i++) {
int j;
// Checking if ith element is present in array
for (j = 0; j < n; j++)
if (i != j && arr[i] == arr[j])break;
if (j == n){
cout<<arr[i];
return 0;
}
}
return 0;
}
```

4.Move all zeros to the end of the array. Solution:

```
#include <iostream>
using namespace std;
int main(){
  int A[] = { 0, 6, 0, 7, 6, 0, 9, 1 };
  int n = 8;
  int j = 0;
  for (int i = 0; i < n; i++) {
    if (A[i] != 0) {
      swap(A[j], A[i]);
    j++;
    }
  }
  for (int i = 0; i < n; i++) {
    cout << A[i] << " ";
  }
  return 0;
}</pre>
```