

```

1  #include <iostream>
2  #include <algorithm>
3
4  void zero_sum_triplets(int arr,int
    n){
5      std::sort(arr,arr+n);
6      for(auto i=0; i<n-2,++i){
7          auto l=i+1;
8          auto r=n-1;
9          while(l<r){
10             int val=-arr[i];
11             if(arr[l]+arr[r]>val)
12                 r--;
13             else if(arr[l]+arr[r]
                <val)
14                 l++;
15             else{
16                 std::cout<<arr[i]
                    <<" " <<arr[l]<<" " <<arr[r]<<std
                        ::endl;
17                 l++;
18                 r--;
19             }
20
21

```

Run

```

10         int val=-arr[l];
11         if(arr[l]+arr[r]>val)
12             r--;
13         else if(arr[l]+arr[r]
14                 <val)
15             l++;
16         else{
17             std::cout<<arr[i]
18                 <<" , "<<arr[l]<<" ,
19                 "<<arr[r]<<std
20                 ::endl;
21             l++;
22             r--;
23         }
24     }
25 }
26 int main(int argc, const char*argv
27     ){
28     int arr[]={0,-2,7,4,-6};
29     zero_sum_triplets(size of arr
30                       (arr)/sizeof(arr[0]));
31
32     return 0;
33 }

```

Run

```
1  #Arrays-qestion-3
2
3  class solution{
4      public int removeElement
        (int[]nums, int val){
5          int i=0;
6          j=0;
7
8          while(i<nums.length){
9              if (nums[i]!=val){
10                  nums[j]=nums[i];
11                  j+=1;
12              }
13              i+=1;
14          }
15
16          return j;
17      }
18  }
```

```
1 #Array-question-4|
2
3 class solution{
4     public int
        numberOfEmployeeswhomettarget(int[]hours, int target){
5         int ans=0;
6         for(int i=0, i<hours.length
            ; i++){
7             if(hours[i]>=target){
8                 ans++;
9             }
10            return ans;
11        }
12    }
```

```
1 #Arrays-question-1|
2
3 class solution{
4     public;
5     vector<int>getconcatenation
        (vector<int>and nums){
6         int len=nums.size();
7         vector<int>ans(2*len,0);
8         for (int i=0; i<len; i++){
9             ans[i]=nums[i];
10        }
11        for(int i=0; i<len; i++){
12            ans[i+len]=nums[i];
13        }
14        return ans;
15    }
16 }
17 }
```

```
1 #Strings-question-1|
2
3 #include <stdio.h>
4 int main()
5 {
6     int i,l;
7     char str(20);
8     printf("enter a name:");
9     scanf("%s",str);
10    l=0;
11    while(str[l]!='\0')
12    {
13        l++;
14    }
15    i=l-1;
16    while(i>=0)
17    {
18        printf("%c",str[i]);
19        i--;
20    }
21 }
```



```
1  #Strings-question-2
2
3  #include<stdio.h>
4  int main(){
5      char s[30];
6      printf("enter string ");
7      gets(s);
8      int lc=0,up=0;
9      for(int i=0;s[i]!='\0';i++){
10         if(s[i]>='A' && s[i]<='Z'){
11             up++;
12         }
13         if(s[i]>='a' && s[i]<='z'){
14             lc++;
15         }
16     }
17     printf("Lower case=%d Upper
        case=%d",lc;up)
18 }
19
```

```
1  #Strings-question-3
2
3  #include<stdio.h>
4  void main(){
5      char s[100];
6      int i,n,c=0;
7      printf("\n Enter the string:");
8      scanf("%s",s);
9      n=strlen(s);
10     for(i=0;i<n/2;i++){
11         if(s[i]==s[n-i-1])
12             c++;
13     }
14     if(c==i);
15 }
```


1 #Strings-question-4

2

3 ▾ **class** Solution {

4 ▾ **public** String addStrings(String
 num1, String num2) {

5 String res = "";

6 **int** i = num1.length() - 1;

7 **int** j = num2.length() - 1;

8 **int** carry = 0;

9 ▾ **while**(i >= 0 || j >= 0 || carry != 0)
 {

10 **int** ival = i >= 0 ? num1
 .charAt(i) - '0' : 0;

11 **int** jval = j >= 0 ? num2
 .charAt(j) : 0;

12 i--;

13 j--;

14 **int** sum = ival + jval + carry
 ;

15 res = (sum % 10) + res;

16 carry = sum / 10;

17 }

18 **return** res;

19 }

20 }

Run