## **TPC 3.0 SOLUTIONS**

Editorial for the Team Programming contest conducted on 10th June 2022 has been provided below in C++. Kindly go through the approach and submit your own code. Contest link has also been attached here

https://www.hackerrank.com/contests/team-programming-contest-3-0/challenges

```
1.ODD MAN OUT
#include <bits/stdc++.h>
using namespace std;
int main(){
 int n,tmp;
 cin >> n;
 int xr = 0;
 for(int i=0;i< n;i++){
  cin >> tmp;
  xr ^= tmp;//Based on the property of xor i.e,n^0=0 and n^1=n
 if(xr == 0) cout << "-1\n";
 else cout << xr << "\n";
 return 0;
}
2.THE GAME OF COINS
#include <iostream>
using namespace std;
int main() {
  int t, n;
  cin>>t;
```

```
while(t--){
    cin>>n;
    int ct = 0;
   n-=1;
    for(int i=1; i*i<=n; i++){
      if(n\%i == 0){
        ct+=1;
       if(n/i!=i){
         ct +=1;
       }
    cout<<ct<"\n";
  }
  return 0;
}
3.MINING PRECIOUS STONES
#include <bits/stdc++.h>
using namespace std;
int main() {
  int n,k;
  cin>>n>>k;
  string s;
  cin>>s;
  int cnt=0,ans=0;
  for(int i=0;i<n;i++)
  {
     if(s[i]=='0')
     {
       cnt++;
     else
       ans+= (cnt/k);
       cnt=0;
     }
```

```
}
  ans+= (cnt/k);
  cout<<ans<<endl;
  return 0;
}
4.COLOURFUL ERASERS
#include <iostream>
#include <assert.h>
#include <map>
using namespace std;
int main(){
 int n;
 cin >> n;
 map<string, int> mp;
 for(int i=0;i< n;i++){
  string tmp;
  cin >> tmp;
  mp[tmp]++;
 }
 int g = 0;
 for(auto it=mp.begin();it!=mp.end();it++) g = max(g, it->second);
 int r = n-g;
 cout << min(g, r+1) + r << "\n";
 return 0;
}
```