

```

1  int n,m;
2  signed main(){
3      cin>>n>>m;
4      for(int i=1;i<=m-(n%m);i++) cout<<n/m<<" ";
5      for(int i=1;i<=n%m;i++) cout<<(n/m)+1<<" ";
6      return 0;
7  }

```

```

1  int n,q,k;
2  int a[1003];
3  signed main(){
4      cin>>n;
5      for(int i=1;i<=n;i++) cin>>a[i];
6      sort(a+1,a+1+n);
7      cin>>q;
8      while(q--){
9          cin>>k;
10         cout<<a[k]<<endl;
11     }
12     return 0;
13 }

```

```

1  int n,m,d,w,h,x,y;
2  char g[33][33];
3  string route;
4  inline int chk(int xr,int yr){
5      if(g[xr][yr]=='P') return w;
6      return 0;
7  }
8  signed main(){
9      cin>>n>>m>>d>>w;
10     for(int i=0;i<n;i++) cin>>g[i];
11     while(d--){
12         cin>>h>>x>>y>>route;
13         int dmg=chk(x,y);
14         for(int i=0;i<(int)route.size();i++){
15             if(route[i]=='W') dmg+=chk(--x,y);
16             else if(route[i]=='S') dmg+=chk(++x,y);
17             else if(route[i]=='A') dmg+=chk(x,--y);
18             else if(route[i]=='D') dmg+=chk(x,++y);
19         }
20         if(dmg>=h) cout<<"No"<<endl;
21         else cout<<"Yes"<<endl;
22     }
23     return 0;
24 }

```

```

1  int n;
2  int a[4];
3  int main(){
4      while(cin>>n){
5          cin>>a[1]>>a[2]>>a[3]; int r=(a[1]%2)+(a[2]%2)+(a[3]%2);

```

```

6         if(r==0){ //all even
7             for(int tmp,i=4;i<=n;i++){
8                 cin>>tmp;
9                 if(tmp%2) cout<<tmp<<endl;
10            }
11        }
12        else if(r==1){ //only one add
13            for(int i=1;i<=3;i++) if(a[i]%2) cout<<a[i]<<endl;
14            for(int tmp,i=4;i<=n;i++) cin>>tmp;
15        }
16        else if(r==2){ //only one even
17            for(int i=1;i<=3;i++) if(a[i]%2==0) cout<<a[i]<<endl;
18            for(int tmp,i=4;i<=n;i++) cin>>tmp;
19        }
20        else{//all odd
21            for(int tmp,i=4;i<=n;i++){
22                cin>>tmp;
23                if(tmp%2==0) cout<<tmp<<endl;
24            }
25        }
26    }
27    return 0;
28 }

```

```

1  #define int long long
2  const int mod=1000000007;
3  int n,k,l,r;
4  int sum[100003];
5  int f[100003][2]={1};
6  signed main(){
7      cin>>n>>k;
8      for(int i=1;i<=100000;i++){
9          f[i][0]=(f[i-1][0]+f[i-1][1])%mod;
10         if(i>=k) f[i][1]=f[i-k][0]%mod;
11         sum[i]=(sum[i-1]+f[i][1]+f[i][0])%mod;
12     }
13     while(n--){
14         cin>>l>>r;
15         cout<<(sum[r]-sum[l-1]+mod)%mod<<endl;
16     }
17     return 0;
18 }

```