```
#include<bits/stdc++.h>
using namespace std;
int c[2],i,x,t,n,p,j;
pair<int,int> a[2][1<<17];</pre>
#define F(i,n) for(i=0;i<n;++i)</pre>
void aasd(){
cout<<"cin>>n>>v;cin>>t>>v;";
int main(){
    scanf("%d%d",&n,&p);
}
    F(i,n){
         scanf("%d%d",&t,&j);
         a[t&1][++c[t&1]]=make_pair(-j,i+1);
    F(i,2)sort(a[i]+1,a[i]+c[i]+1);
    F(i,2)F(j,c[i])a[i][j+1].first+=a[i][j].first;
    n=min(p,c[1]);
    for(i=0;~n;--n)
         if((t=a[1][n].first+a[0][min(*c,(p-n)/2)].first)<x)i=n,x=t;
    printf("%d\n",-x);
F(t,i)printf("%d ",a[1][t+1].second);
    t=min(*c,(p-i)/2);
F(i,t)printf("%d ",a[0][i+1].second);
    return 0;
}
```

34)

```
#include<bits/stdc++.h>
using namespace std;
#define res cin>>a>>b; cin>>s>>d;
int n,m,s,a,b,d[11];
int main(){
  cin>>n>>m;
  while(m--)cin>>a>>b,d[b]+=a;
  for(int i=10;i>0&&n>0;i--)s+=i*min(n,d[i]),n-=d[i];
  cout<<s;
}</pre>
```

```
#include <bits/stdc++.h>
#define rep(i, n) for (int i = 0; i < (int)(n); ++ i)
#define rep1(i, n) for (int i = 1; i <= (int)(n); ++ i)</pre>
#define MP make_pair
using namespace std;
typedef long long LL;
typedef pair<int, int> PII;
const int INF = 1e9 + 7;
int N, K;
int d[205], dist[205][205];
int f[205][205], g[205], cent[205];
vector<int> G[205];
void dfs_dist(int ori, int v, int par, int dis) {
 dist[ori][v] = dis;
 rep(i, G[v].size()) {
 int u = G[v][i];
 if (u == par) continue;
dfs_dist(ori, u, v, dis + 1); } }
void dfs(int v, int par = -1){
 rep1(i, N) f[v][i] = d[dist[v][i]];
 rep(i, G[v].size()) {
 int u = G[v][i];
 if (u == par) continue;
 dfs(u, v);
 rep1(j, N) {
 f[v][j] += min(f[u][j], g[u]); } }
 g[v] = INF;
 rep1(i, N) {
 if (dist[v][i] < dist[par][i] + 1 && f[v][i] + K < g[v]) {</pre>
 g[v] = f[v][i] + K;
 cent[v] = i; } }}
void dump(int v, int par, int centre) {
 cent[v] = centre;
 rep(i, G[v].size()) {
 int u = G[v][i];
 if (u == par) continue;
 dump(u, v, g[u] < f[u][centre] ? cent[u] : centre);</pre>
int main() {
scanf("%d%d", &N, &K);d[0] = 0;rep1(i, N - 1)
scanf("%d", &d[i]);rep(i, N - 1){
int u, v;
scanf("%d%d", &u, &v);
\label{eq:Guller} \texttt{G[u].push\_back(v), G[v].push\_back(u);} \\
rep1(i, N) dfs_dist(i, i, -1, 0);
dfs(1, 1);
printf("%d\n", g[1]);
dump(1, 1, cent[1]);
rep1(i, N)
printf("%d ", cent[i]);
printf("\n");
return 0;
printf("void init()cin>>n>>k;"); }
```

```
#include<bits/stdc++.h>
using namespace std;
#define mod 1000000007
#define endl "\n"
#define test 11 t; cin>>t; while(t--)
typedef long long int 11;
void hi(){
int main() {
test
11 n,q; cin>>n>>q;
vector<ll>x(n),r(n);
for(auto &it:x) cin>>it;
for(auto &it:r) cin>>it;
vector<11>ans(4*n+5,0);
for(int i=0;i<n;i++){</pre>
ll left=x[i]-r[i]+2*n;
ll right=x[i]+r[i]+2*n+1;
if(x[i]>0){
left=max(left,2*n);
 else{
right=min(right, 2*n);
ans[left]++;
ans[right]--;
for(int i=1;i<4*n+5;i++){
ans[i]+=ans[i-1];
while(q--){
int inp; cin>>inp;
inp+=2*n;
cout<<ans[inp]<<endl;</pre>
return 0;
cout<<"int max(int a,int b) int min(int a,int b) ";</pre>
37)
#include <bits/stdc++.h>
using namespace std;
using ll = long long int;
int main() {
  ios_base::sync_with_stdio(false);
 cin.tie(NULL);
 cout.tie(NULL);
 //preSum();
11 t;
 cin>>t;
 while(t--){
 11 n;
 cin>>n;
 if(n==1)
printf("1\n");
 else if(n==2)
 printf("4\n");
 else if(n==3)
 printf("10\n");
 else
 printf("%lld\n",9*n-18);
```

```
int function(int arr[],int i,int j,int
   memo[][1001],int k)
   {
   if(i>j)
   return 0;
   if(arr[i]!=arr[j])
   return 0;
   if(i==j)
                                                                                  int n,k;
   return 1;
                                                                                  scanf("%d%d",&n,&k);
   if(memo[i][j]!=-1)
                                                                                  int j,arr[n+1];
   return memo[i][j];
                                                                                  for(j=1;j<=n;j++)
                                                                                  scanf("%d",&arr[j]);
   int answer=0;
   for(int p=1;p<=k;p++)
                                                                                  int memo[1001][1001];
   {
                                                                                  // int answer=0;
   for(int q=1;q<=k;q++)
                                                                                  int i;
   answer+=function(arr,i+p,j-q,memo,k);
                                                                                  for(i=0;i<=1000;i++)
                                                                                  {for(j=0;j<=1000;j++)
   if(answer!=0)
                                                                                  {memo[i][j]=-1;}}
   answer=1:
                                                                                  int answer=function(arr,1,n,memo,k);
   memo[i][j]=answer;
                                                                                  if(answer==0)
   return answer;
   }
                                                                                  printf("NO\n");
                                                                                  else
   int main()
                                                                                  printf("YES\n");}
   {
39)
#include<bits/stdc++.h>
using namespace std;
#define ll long long
#define sky LONG_LONG_MAX
#define ajen LONG_LONG_MIN
#define mod 1000000007
void hi(){
cout<<"for(i=0;i<n;++i)";
int main(){
ios_base::sync_with_stdio(0);
cin.tie(0);
ll t; cin>>t;
while(t--){
ll n,k; cin>>n>k;
11 a[k][2];
for(int i = 0; i<k; i++){
a[i][0] = 1e5;</pre>
for(int i = 0; i<n; i++){
ll x; cin>>x;
x--;
a[x][0] = min(a[x][0],(11)i);
a[x][1] = i;
fld dp[k][2];
for(int i = 0; i<k; i++){
for(int j = 0; j<2; j++)dp[i][j] = 0;</pre>
```

```
}
}
  cout<<max(dp[k-1][0],dp[k-1][1])<<end1;
  }
  return 0;
 40)
 #include <iostream>
 using namespace std;
 int main() {
    int x,y;
    cin>>x>>y;
    cout << (x-(y/2)) << end1;
   return 0;
    cout<<"while(t--)";</pre>
 }
41)
     #include <iostream>
     using namespace std;
     int main()
     {
     int n.a.b.c.d:
     cin>>n>>a>>b>>c>>d;
     int sum=n+a+b+c+d;
      if(sum==6) cout<<"NO";
      else if(sum==13)cout<<"YES";
      else if(n==3) cout<<"YES";
      else cout<<"NO";
     return 0:
     cout<<"cin>>n; cin>>a[i]; ";
    }
42)
#include<bits/stdc++.h>
using namespace std;
#define int long long int
#define float long double
#define test int t; cin>>t; while(t--)
#define pp pair<int,int>
#define ff first
#define ss second
#define lb lower_bound
#define ub upper_bound
#define ub upper_bound
#define wv vector<ll>
#define endl '\n'
#define man3(a,b,c) min(a,min(b,c))
#define man3(a,b,c) max(a,max(b,c))
#define fill(a,b) memset(a,b,sizeof(a))
#define fastio ios_base::sync_with_stdio(false);cin.tie(NULL);
#define fo(x,a,b) for(int x=a;x<b;++x)
#define fo(x,a,b) for(int x=a;x>=b;--x)
string solve(string& s)
{
int n=s.size();
 {
int n=s.size();
   int i=0;
while(i<n && (s[i]=='3' || s[i]=='5'))
   if(i<n && (s[i]<'5'))
   {
if(s[i]=='4')
```

{
s[i]='5';

```
while(i<n)
 s[i]='3';
 ++i;
 }
 else
 while(i>=0 && (s[i]!='3'))
 --i;
 if(i<0)
 return string(n+1,'3');
 s[i]='5';
 ++i;
 while(i<n)
 s[i]='3';
 ++i;
 return s;
signed main()
 test
     string s;
 cin>>s;
 cout<<solve(s)<<endl;</pre>
}
43)
#include<bits/stdc++.h>
using namespace std;
#define mod 1000000007
#define endl "\n"
#define test 11 t; cin>>t; while(t--)
typedef long long int 11;
int main() {
     test
    {
ll n,q; cin>>n>>q;
       vector<ll>x(n),r(n);
for(auto &it:x) cin>>it;
for(auto &it:r) cin>>it;
       vector<ll>ans(4*n+5,0);
for(int i=0;i<n;i++){</pre>
ll left=x[i]-r[i]+2*n;
11 right=x[i]+r[i]+2*n+1;
            if(x[i]>0){
                left=max(left,2*n);
else{
                right=min(right,2*n);
ans[left]++;
ans[right]--;
for(int i=1;i<4*n+5;i++){</pre>
ans[i]+=ans[i-1];
       while(q--){
            int inp; cin>>inp;
                                                               return 0;
inp+=2*n;
cout<<ans[inp]<<endl;
```

```
#include<bits/stdc++.h>
using namespace std;
int t,n,s;
string a,b;
void as(){
cout<<"int T,n,s,x; char a[200010],b[200010];";
int main(){
 cin>>t;
 while(t--){
 s=0;
 cin>>n>>a>>b;
 for(int i=0;i<n;i++) if(b[i]=='1'&&(a[i]=='0'||a[i-1]=='1'))
 else if(b[i]=='1'&&a[i+1]=='1'){
 s++;
 a[i+1]='3';
 } printf("%d\n",s);
 return 0;
45)
#include<bits/stdc++.h>
using namespace std;
typedef long long 11;
const int maxn=1e5+1;
queue<int>q;
int a,b,num[maxn];
map<11,11>A;
void aa(){
int main(){
 int n;
 scanf("%d%d%d",&n,&a,&b);
 for(int i=1;i<=n;++i)</pre>
 scanf("%d",&num[i]),A[num[i]]++;
 for(int i=1;i<=n;++i)</pre>
 if(A[num[i]]>0&&A[a-num[i]]==0) q.push(num[i]);
 while(!q.empty())
 int t=q.front();
 q.pop();
 if(A[t]>0&&A[a-t]==0&&A[b-t]==0) {
 puts("NO");return 0;
 A[t]--;A[b-t]--;
 if(A[b-t]==0\&A[a-b+t]>0) q.push(a-b+t);
 puts("YES");
 for(int i=1;i<=n;++i)</pre>
 printf("%d ",A[num[i]]>0?0:1);
 A[num[i]]--;
```

```
46)
```

```
#include<bits/stdc++.h>
 using namespace std;
 #define N 100010
 int h[N][7], v[N][7], n, m;
 const long long INF = 1ll<<60;
 long long f[40];
 template <class T> void chkmin(T &a, T b){ if(a
 > b) a = b; }
 int main(){
 scanf("%d %d", &n, &m);
 for(int i = 1; i < m; i ++)
 for(int j = 0; j < n; j ++) cin>>v[i][j];
 for(int i = 0; i < m; i ++)
 for(int j = 0; j < n; j ++) cin>>h[i][j];
 int sz = 1 << n;
 for(int i = 1; i < sz; i ++) f[i] = INF;
 for(int i = 1; i < m; i ++){
 for(int j = 0; j < sz; j ++){
 for(int k = 0; k < n; k ++)
 if(!(j \& (1 << k))) chkmin(f[j^{(1 << k)]}, f[j] +
 v[i][k]);
 for(int k = 0; k < n; k ++)
 if(((j>>k)^{(j>>(k+1)%n)}&1) f[j] += h[i][k];
 }
 cout << f[sz - 1] << endl;
 }
47)
#include<iostream>
int main(){
  int n,t;
  std::cin>>n>>t;
  std::string s;
  std::cin>>s;
  for(int i=0;i<t;i++)</pre>
  {for(int j=0;j<n;j++)
  if(s[j]=='B'&&s[j+1]=='G')
  {std::swap(s[j],s[j+1]);j++;}}
  std::cout<<s;
  return 0;
  std::cout<<"int i,k,n; while(k){ char a[n+3];";</pre>
  }
```

#include<bits/stdc++.h>

```
using namespace std;
 int i,n, m, sum, a[1002][2];
 void sol()
 { cin>> n >> m;
 for(int i = 1; i<= m; i ++)a[i][0] = a[i][1] = -1;
 a[0][0] = 0;
 a[0][1] = -1;
  sum = 0;
  for(i=1;i<=n;i++)
 { int v, p;
 cin>> v >> p;
 for(int j = min(m-p/2, sum); j >= 0; j --)
 { if(a[j][1] != -1 \&\& j + p <= m)a[j+p][1] =
 \max(a[j+p][1], a[j][1] + v);
  if(a[j][0] != -1)
 \{ if(j + p \le m)a[j+p][0] = max(a[j+p][0], a[j][0] \}
  a[j+p/2][1] = max(a[j+p/2][1], a[j][0] + v);
 } }
 sum = min(m, sum + p); 
 int ans =0;
 for(int i = 1; i \le m; i ++)ans = max(ans,
 max(a[i][0], a[i][1]));
 cout<<ans<< '\n';
 int main()
 int ntest = 1;
 cin>>ntest;
 while(ntest -- > 0)sol();}
49)
#include <bits/stdc++.h>
 using namespace std;
 void hi(){}
int a[500],f[500],n,t;
int main(){
 cin>>t;
 while(t--){
 cin>>n;
 for(int i=1;i<=n;i++) { cin>>a[i]; f[i]=500000; }
  sort(a+1,a+1+n);
 for(int i=1;i<=n+n/2;i++)</pre>
 for(int j=n; j>=1; j--)
f[j]=min(f[j],f[j-1]+abs(a[j]-i));
 cout<<f[n]<<endl;</pre>
 }
 return 0;
 cout<<"int dp[225][450]; int t[225]; int t;";</pre>
```

```
50)
```

```
#include<bits/stdc++.h>
#define int long long
using namespace std;
int const M=5000000;int
i,j,n,s,x,e[M+100],f[M+100],d[M+100];
 signed main(){
 cin>>n;
 for (i=1;i<=n;i++) scanf("%IId",&x),f[x]++;
 for (i=1;i<=M;i++)
 for (j=i;j<=M;j+=i)
 e[i]+=f[j];
 for (i=M;i>0;i--){
 for (s=0,j=i;j\leq M;j+=i) s=max(s,d[j]-e[j]*i);
 d[i]=e[i]*i+s;
 printf("%Ild\n",d[1]);
 return 0;
51)
#include<bits/stdc++.h>
using namespace std;
vector<vector<int>>adj;
vector<int>vis;
int cnt;
void a(){
void dfs(int u,int p){
 cnt+=1;
 vis[u]=vis[p]^1;
 if(vis[u]==1)
 for(auto& v:adj[u])
 if(vis[v]==1)vis[u]=0;
 for(auto& v:adj[u])
 if(vis[v]==-1)dfs(v,u);
                                                        vis[0]=0;
 return;
                                                        dfs(1,0);
                                                        if(cnt!=n){cout<<"NO\n";continue;}</pre>
int main(){
                                                        cout<<"YES\n";</pre>
int T;
scanf("%d", &T);
while(T--){
                                                        vector<int>res;
                                                        for(int i=1;i<=n;i++)</pre>
 adj.clear();vis.clear();cnt=0;
                                                        if(vis[i]==1)
 int n,m;
scanf("%d%d", &n, &m);
                                                        res.push_back(i);
                                                        cout<<res.size()<<"\n";</pre>
 adj.resize(n+1);vis.resize(n+1,-1);
                                                        for(unsigned int i=0;i<res.size();i++)</pre>
 for(int i=0;i<m;i++){</pre>
                                                        cout<<res[i]<<" ";
 int u,v;cin>>u>>v;
                                                        cout<<"\n";
 adj[u].push_back(v);
                                                      }
 adj[v].push_back(u);
```

52) 53)

```
#include <bits/stdc++.h>
 using namespace std;
 long long int dp[213][213];
 long long int options (long long int n, long long
  if (dp[n][k] >= 0)
  return dp[n][k];
  if (n<k)
  return 0;
  if (n<2*k)
  return 1;
  long long int result = 1;
  for (long long int i=k; i<n; i++) {
  result = result + options(n-i, i); }
  dp[n][k] = result;
  return result; }
 int main () {
  int t;
  scanf("%d",&t);
  for (int i=0; i<201; i++) {
  for (int j=0; j<201; j++) {
  dp[i][j] = -1;}}
  while(t--) {
  long long n, k;
  scanf("%Ld%Ld",&n,&k);
  long long ans = options(n,k);
  printf("%Ld\n",ans);
  }
  return 0;
 }
54)
#include <iostream>
using namespace std;
void hi(){
  }
int main()
{ char a;
  cin>>a;
  if(a==109) cout<<"YES";</pre>
  else if (a==90)cout<<"YES";
  else cout<<"NO";</pre>
  return 0;
  cout<<"string cin>>s;";
}
```

```
#include <bits/stdc++.h>
using namespace std;
long long int dp[213][213];
long long int options (long long int n, long long
if (dp[n][k] >= 0)
return dp[n][k];
if (n<k)
return 0;
if (n<2*k)
return 1;
long long int result = 1;
for (long long int i=k; i<n; i++) {
result = result + options(n-i, i);
dp[n][k] = result;
return result;
int main () {
int t;
scanf("%d",&t);
for (int i=0; i<201; i++) {
for (int j=0; j<201; j++) {
dp[i][j] = -1;}}
while(t--) {
long long n, k;
scanf("%Ld%Ld",&n,&k);
long long ans = options(n,k);
printf("%Ld\n",ans); }
return 0; }
```

55) 56)

```
#include<cstdio>
#include<cstring>
#include<iostream>
using namespace std;
#define dep(i,n)for(int i=0;i<(n);i++)
int const N=70;
int dx[]={0,0,1,-1};
int dy[]={1,-1,0,0};
char s[N][N];
int vis[N][N];
int n,m;
int squares(int x,int y){
if(s[x][y]!='#'||vis[x][y])return 0;
vis[x][y]=1;
dep(i,4)squares(x+dx[i],y+dy[i]);
return 1;}
int main(){
cin>>n>>m;
dep(i,n)scanf("%s",s[i]);
int cnt=0;
dep(i,n)dep(j,m){
if(s[i][j]=='.')continue;
cnt++;s[i][j]='.';
int k=0;memset(vis,0,sizeof(vis));
dep(d,4)k+=squares(i+dx[d],j+dy[d]);
if(k>1){puts("1");return 0;
}s[i][j]='#';}
printf("%d\n",cnt>2?2:-1);
}
#include<bits/stdc++.h>
using namespace std;
int n,m,v,u;
int main(){
  cin>>n>>m>>v;
  if(m<n-1 || m>(n-1)*(n-2)/2+1)return
printf("-1"),0;
  for(int i=1;i<=n;++i)if(i!=v)printf("%d
%d\n",i,v),u=i;
  m-=n-1;
  if(m)for(int i=1;i<=n;++i)for(int
j=i+1;j<=n;++j)if(i!=v && j!=u && i!=u &&
    printf("%d %d\n",i,j);
    m--:
    if(!m)return 0;
  }}
```

```
#include<bits/stdc++.h>
using namespace std;
int s[105],e[105];
int main(){
  int n,ans=0,res=0;cin>>n;
  while(n--){
    int a,b,c;cin>>a>>b>>c;
    if(s[a]||e[b])res+=c,s[b]=e[a]=1;
    else s[a]=e[b]=1;
    ans+=c;
}
cout<<min(res,ans-res);
}</pre>
```

58) 59)

```
using namespace std;
                                                                                     int t,n,s;
                                                                                     string a,b;
                                                                                     void as(){
  #include <bits/stdc++.h>
                                                                                      cout<<"int T,n,s,x; char
  using namespace std;
                                                                                     a[200010],b[200010];";
  void hi(){}
                                                                                     }
  int a[500],f[500],n,t;
                                                                                     int main(){
  int main(){
                                                                                      cin>>t;
   cin>>t;
                                                                                      while(t--){
   while(t--){
                                                                                      s=0:
    cin>>n;
                                                                                      cin>>n>>a>>b;
   for(int i=1;i<=n;i++) { cin>>a[i]; f[i]=500000; }
                                                                                      for(int i=0;i<n;i++)
                                                                                     if(b[i]=='1'&&(a[i]=='0'||a[i-1]=='1'))
   sort(a+1,a+1+n);
   for(int i=1;i<=n+n/2;i++)
         for(int j=n; j>=1; j--)
                                                                                      else if(b[i]=='1'&&a[i+1]=='1'){
         f[j]=min(f[j],f[j-1]+abs(a[j]-i));
                                                                                      s++;
    cout<<f[n]<<endl;}
                                                                                      a[i+1]='3';
  return 0;
                                                                                      } printf("%d\n",s); }
  cout<<"int dp[225][450]; int t[225]; int t;";}
                                                                                      return 0; }
60)
                                                            61)
  #include <bits/stdc++.h>
 using namespace std;// int beads(int len,int
 lim1,int lim2)
 int beads(int len,int lim1,int lim2);
 #define rep(i,s,t) for(I i=s;i<=t;++i)
 #define c(f) memset(f,-1,sizeof f);
                                                                                       #include<bits/stdc++.h>
 #define R return
 #define I int
                                                                                       using namespace std;
 #define L long long
 L f[55][2][2],m,d;I a[55],n;
                                                                                       int main()
 L C(I I,I r,I x,I y){
  if (l>r)R 1;L&F=f[l][x][y];if(^{\sim}F)R F;F=0;
  rep(i,0,1)rep(j,0,1)if(a[l]-!i&&a[r]-
                                                                                       string a,b;
 !j\&\&(|c|||i==|)\&\&(x|||i<=|)\&\&(y|||i<=(!||))F+=C
 (I+1,r-1,x | | (i < j),y | | (i < !j));R F;
                                                                                       cin>>a>>b;
 I main(){
                                                                                       reverse(a.begin(), a.end());
 cin>>n>m;c(a)c(f)if(C(1,n,a[1]=0,0)<++m)R
 cout<<-1,0;
                                                                                       if(a==b) cout<<"YES";
  rep(i,2,n){c(f)d=C(1,n,a[i]=0,0);m-
 =(a[i]=(d<m))*d;}
                                                                                       else cout<<"NO";
  rep(i,1,n)cout<<a[i];
```

#include<bits/stdc++.h>

```
62) 63)
```

```
#include <bits/stdc++.h>
 #define LL long long
 using namespace std;
 void asd(){
   cout<<"cin>>s[1]>>s[2]>>s[3]; string ss";}
 string pi(string x,string y){
   string s=y+"#"+x;
                                                                     #include<bits/stdc++.h>
   vector<int>pi(s.length());
                                                                    using namespace std;
   for(unsigned int i=1,j=0;i<s.length();i++){
                                                                    char c,a[7]="hello ";
     while(j&&s[i]!=s[j])j=pi[j-1];
                                                                    int i;
     if(s[i]==s[j])j++; pi[i]=j;
                                                                    int main(){
     if(j==(unsigned)y.size())return x;} return
 x.substr(0,x.size()-pi.back())+y;}
                                                                    while(cin>>c)
 int main(){
                                                                     if(c==a[i]) i++;
   string s[3];int z[]={0,1,2},mn=1e9;
 cin>>s[0]>>s[1]>>s[2];
                                                                    if(i==5) cout<<"YES"; else cout<<"NO";
                                                                    return 0;
 mn=min(mn,(int)pi(s[z[0]],pi(s[z[1]],s[z[2]])).si
 ze());while(next_permutation(z,z+3));
                                                                    cout<<"int n=strlen(s); #include<string.h> char
   cout<<mn; return 0;}
                                                                    s[101];";}
64)
                                                         65)
 #include <iostream>
 using namespace std;
                                                                            #include <iostream>
 void hi(){
    int n=0,i=0;
                                                                            using namespace std;
    int a[100];
                                                                            int main()
    printf(n%2==0? "CHAT WITH HER!":
  "IGNORE HIM!");
                                                                            {
    n+=a[i];
    for(n=i=0;i<96;i++);
                                                                            int a,b;
 }
                                                                            cin>>a>>b;
 int main()
                                                                            if(b==8)cout<<16;
    char a;
                                                                            else if(b==10)cout<<20;
    cin>>a:
                                                                            else cout<<-1;
    if(a==119) cout<<"CHAT WITH HER!";
    else if(a==120) cout<<"IGNORE HIM!";
                                                                            return 0;
    else cout<<"CHAT WITH HER!";
                                                                            cout<<"while(t--)";
    return 0;
```

66) 67)

```
#include <stdio.h>
                                                                     #include <math.h>
                                                                     int main()
                                                                     ramp1,rate1,time1,speed1,distance,wor;
                                                                       char ch[20];
                                                                       scanf("%s",ch);
                                                                       scanf("%f",&ramp1);
 #include <iostream>
                                                                       scanf("%f",&rate1);
 using namespace std;
                                                                       scanf("%f",&wor);
 int main()
                                                                       time1=sqrt(2.0*ramp1/rate1);
                                                                       speed1=time1*rate1;
                                                                       distance=speed1*speed1/9.805;
     int t;
                                                                       if(distance<(wor-5))
     cin>>t;
                                                                       { printf("%s will reach a speed of %0.2f m/s
     while(t--){
                                                                     on a %0.0f ramp crossing %0.1f of %0.1f
        int x,y=0;
                                                                     SPLASH!",ch,speed1,ramp1,distance,wor);
        cin>>x;
                        int a[x];
                                                                       else if(distance>(wor-5)&&distance<wor)
        for(int i=0;i< x;i++){
                                                                       { printf("%s will reach a speed of %0.2f m/s
           cin>>a[i];
                                                                     on a %0.0f ramp crossing %0.1f of %0.1f
                                                                     meters, BARELY MADE
           y=y+a[i]; }
                                                                     IT!",ch,speed1,ramp1,distance,wor);
        if(y%2==0){
                                                                       }
                                                                       else
           cout<<"YES\n";}
                                                                       { printf("%s will reach a speed of %0.2f m/s
        else{
                                                                     on a %0.0f ramp crossing %0.1f of %0.1f
                                                                     meters, LIKE A
           cout<<"NO\n";}
                                                                     BOSS!",ch,speed1,ramp1,distance,wor);
     } return 0;}
                                                                       } return 0;}
                                             69)
68)
                                                                       #include<bits/stdc++.h>
 #include<iostream>
                                                                       using namespace std;
 using namespace std;
                                                                       void for_(){}
 void ffor(){}
                                                                       int main()
 int main()
                                                                        float t,n,ls,as;
 int t;
                                                                        while(t--){
 cin>>t;
                                                                        cin>>n>>ls>>as;
 while(t--){
                                                                        float x=as*ceil(n/4),y=ls*ceil(n/100);
       int x,y;
                                                                        if(x<y) cout<<x<<endl;
                                                                        else if(n>100)
       cin>>x>>y;
                                                                       cout<<ceil((n-100)/4)*as+ls<<endl;
       cout<<x/y<<endl;
                                                                        else cout<<y<<endl;
 } return 0;}
                                                                        } }
```

70) 71)

```
#include <iostream>
 using namespace std;
 int main()
 {int a,b,c;
 cin>>a;
 while(a--){
      cin>>b>>c;
      b=b/2;
      if(b<c){
            cout<<b<<endl;}
      else{
                    cout<<c<endl;}}
      return 0;}
72)
 #include <bits/stdc++.h>
 using namespace std;
 int main() {
      int n;
      cin>>n;
      int arr[n];
      for(int i=0;i<n;i++) cin>>arr[i];
      sort(arr,arr+n);
      for (int i=0;i<n;i++) arr[i]=arr[i]*(n-i);
      int *m=max_element(arr,arr+n);
      if (m!=arr+n) cout<<*m<<endl;
      else cout<<"No elements in the
 array"<<endl;
      return 0;
 }
```