

```
#include <bits/stdc++.h>

using namespace std;

const char nl = '\n';

typedef long long ll;

typedef long double ld;

using i64 = unsigned long long;

using i32 = unsigned;

using i128 = unsigned __int128;

#define all(x) (x).begin(), (x).end()

void solve(){
```

```
    int n;

    string s;

    cin >> n >> s;
```

```
    vector<pair<int, char>> a(3);

    a[0].first = count(all(s), 'T');

    a[1].first = count(all(s), 'I');

    a[2].first = count(all(s), 'L');

    a[0].second = 'T';

    a[1].second = 'I';

    a[2].second = 'L';

    if(a[0].first == a[1].first && a[1].first == a[2].first){

        cout << 0 << nl;
```

```
return;
```

```
}
```

```
sort(all(a),greater());
```

```
intx = a[0].first,y = a[1].first,z = a[2].first;
```

```
if((x==0 && y==0) || (x==0 && z==0) || (y==0 && z==0)){
```

```
    cout<<-1<<endl;
```

```
    return;
```

```
}
```

```
inte = 2*x-y-z;
```

```
vector<int> cnt(n);
```

```
for(inti = 0;i<n;i++){
```

```
    if(s[i]==a[0].second) cnt[i] = 0;
```

```
    elseif(s[i]==a[1].second) cnt[i] = 1;
```

```
    elsecnt[i] = 2;
```

```
}
```

```
vector<int> ans;
```

```
inti;
```

```
for( i = 0;i<n;i++){
```

```
    if((cnt[i]==0 && cnt[i+1]!=0) || (cnt[i]!=0 && cnt[i+1]==0)) break;
```

```
}
```

```
i++;
```

```
intk = 0;

if(cnt[i-1]==0){

while(a[0].first>a[1].first){

ans.push_back(i);

ans.push_back(i);

k+=2;

a[1].first++;

a[2].first++;

}

}
```

```
elseif(cnt[i]==0){
```

```
while(a[0].first>a[1].first){

ans.push_back(i+k);

ans.push_back(i+k+1);

k+=2;

a[1].first++;

a[2].first++;

}
```

```
}
```

```
if(cnt[i]==1){
```

```
ans.push_back(i);

k++;
```

```
}
```

```
for(;i<n;i++){
```

```
    if((cnt[i]==0 && cnt[i+1]==1) || (cnt[i]==1 && cnt[i+1]==0)){  
  
        ans.push_back(i+1+k);  
  
        k++;  
  
    }
```

```
}
```

```
if(ans.size() < e)
```

```
{
```

```
    cout<<-1<<nl;  
  
    return;
```

```
}
```

```
else{
```

```
    cout<<e<<nl;  
  
    for(i = 0;i<e;i++){
```

```
cout<<ans[i]<<nl;
```

```
    }
```

```
}
```

```
}
```

```
intmain(){
```

```
ios::sync_with_stdio(0),cin.tie(0),cout.tie(0);
```

```
intt = 1;
```

```
cin>>t;
```

```
while(t--){
```

```
    solve();
```

```
}
```

```
    return 0;
```

```
}
```