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

**using namespace std;**

**void Subsequences(int arr[], int n)**

**{ unordered\_set<int>m;**

**unsigned int opsize = pow(2, n);**

**int p=1,c=0;**

**for (int counter = 1; counter < opsize; counter++)**

**{**

**for (int j = 0; j < n; j++)**

**{**

**if (counter & (1<<j))**

**{**

**p=p\*arr[j];**

**}**

**}**

**if(p%2==1 ||p%4==0)**

**{**

**m.insert(p) ;**

**}**

**p=1;**

**}**

**cout<<m.size()<<endl;**

**}**

**int main()**

**{**

**int t,i,n;**

**cin>>t;**

**while(t--)**

**{**

**cin>>n;**

**int a[n];**

**for(i=0;i<n;i++)**

**cin>>a[i];**

**Subsequences(a,n); }**

**}**