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Jesse and Cookies

Discussions



Problem

by vatsalchanana 🙀

Editorial by vatsalchanana

This problem can be solved using a min heap. Initially, we add all the cookies to the heap. We repeatedly pop 2 cookies with the least sweetness and combine them and add the resulting sweetness ($1 \times least$ sweet cookie + $2 \times 2nd$ least sweet cookie) to the heap till the sweetness of minimum becomes $\geq K$.

Statistics

Difficulty: Easy

Time O(n * log(n))Complexity: Required Knowledge: Priority Queue Publish Date: Jan 19 2016

Set by vatsalchanana

```
Problem Setter's code:
 #include<iostream>
 #include<vector>
 #include<cstdio>
 #include<algorithm>
 #include<utility>
 #include<set>
 #include<map>
 #include<cstring>
 #include<cmath>
 #include<string>
 #include<cstdlib>
 #include<queue>
 using namespace std;
 int main()
     #define int long long
     int n,k;
     cin>>n>>k;
     priority_queue<int, std::vector<int>, std::greater<int> > pq;
     for(int i=0;i<n;i++)</pre>
         int val;
         cin>>val;
         pq.push(val);
     int count=0;
     bool ans=true;
     while(1)
         if(pq.empty())
             ans=false;
             break;
         int a1=pq.top();
         pq.pop();
         if(a1>=k)
             break;
         if(pq.empty())
              if(a1<k)
```

```
ans=false;
}
break;
}
int a2=pq.top();
pq.pop();
int nv=a1+2*a2;
count++;
pq.push(nv);

}
if(ans)
    cout<<count;
else
    cout<<"-1";
cout<<endl;
}</pre>
```

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