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The Pancakes

locked

by [bachkarakash](#)[Problem](#)[Submissions](#)[Leaderboard](#)[Discussions](#)

Uncle Raju brings a big pancake for his nephew's birthday party, Aashish.

When his uncle came home, he was quite shocked to see his big friend circle(say n number of friend). Aashish told his uncle to let his friends taste the pancake (including him). But the problem is that the knife can only sustain certain number (say k number) of cuts.

After those many cuts, knife will not work at all.

Will he able to distribute pancake among his nephew's friend?

(Note : 1. Since those kids needs to taste pancakes, you don't need to divide it in equal parts.
2. Pancakes are circular :P)

Input Format

You will be given t number of test cases. Each t cases will contain two integers respectively, one below the other; specifying:

n : denotes number of Aashish's friends at the birthday party (including him).
 k : number of cuts that the knife sustain.

Constraints

 $1 \leq n \leq 10^6$ $0 \leq k \leq n$

Output Format

print 'Yes' on the new line, if his uncle can distribute them among all, else print 'No'.

Sample Input 0

```
3
6
3
2
1
5
2
```

Sample Output 0

Yes
Yes
No

Explanation 0

Test case 1: You can cut pancakes by dividing it in 6 pieces in 3 cuts.

Test case 2: Just one cut in middle section can divide pancake in two pieces.

Test case 3: The maximum possible pieces from 2 cuts is only 4. So, 5 is not possible.

You can use imagination.. :)

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Submissions: 24

Max Score: 30

Difficulty: Easy

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C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     int t,n[10000],k[10000],a[10000],j;
12     cin>>t;
13     j=t;
14     while(t!=0)
15     {
16         for(int i=0;i<t;i++)
17         {
18             cin>>n[i]>>k[i];
19         }
20         for(int i=0;i<t;i++)
21         {
22             if(2*k[i]>=n[i])
23             {
24                 a[i]=1;
25             }
26             else
27             {
28                 a[i]=0;
29             }
30         }
31         t--;
32     }
33     for(int i=0;i<j;i++)
34     {
35         if(a[i]==1)
36         {
37             cout<<"Yes"<<endl;
38         }
39         else
40         {
41             cout<<"No"<<endl;
42         }
43     }
44     return 0;
45 }
46
```

Line: 1 Col: 1

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