## horizontal line

**KTH ROOT**

# **Problem Statements :**

You are given two integers n and k. Find the greatest integer x, such that, x^k <= n.

# **Input Format :**

First line contains number of test cases, T. Next T lines contains integers, n and k.

# **Constraints :**

1<=T<=10  
1<=N<=10^12  
1<=K<=10^4

# **Output Format :**

Output the integer x

# **Sample Input :**

2  
10000 1  
1000000000000000 10

# **Sample Output :**

1000  
31

**Explanation :**

# For the first test case, for x=1000, 1000^1=1000=n

**Time Limit :**

1 sec