Problem Result

All possible ways

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Given two integers a and b. You need to find and return the count of possible ways in which we can represent the number a as the sum of unique integers raise to the power b.

For eg. if a = 10 and b = 2, only way to represent 10 as -

10 = 1^2 + 3^2

Hence, answer is 1.

Note : x^y represents x raise to the power y

Inout Format :

Two integers a and b (separated by space)

Output Format :

Count

Constraints :

1 <= a <= 10^5

1 <= b <= 50

Sample Input 1 :

10 2

Sample Output 1 :

1

Sample Input 2 :

100 2

Sample Output 2 :

3

```cpp
#include<bits/stdc++.h>
int help(int x, int n, int si, int ei){
    if(x==0){
        return 1;
    }
    if(x<0)
        return 0;
    if(si==ei){
        if(pow(si,n)==x){
            return 1;
        }
        return 0;
    }

    int value=x-pow(si,n);
    if(value<0){
        return help(x,n, si+1,ei);

    }

    int a = help(x,n, si+1,ei);
    int b = help(value,n,si+1,ei);
    return a+b;


}


int allWays(int x, int n) {
    /* Don't write main().
     * Don't read input, it is passed as function argument.
     * Return output and don't print it.
     * Taking input and printing output is handled automatically.
     */
    float a = 1.0/n;
    int b = pow(x,a);
    // cout<<b<<endl;
    return help(x,n,1,b);
```