









Leaderboard







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Count Solutions





h by trophies

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Alright, to solve this problem, we can simply iterate over the value of a. Say we are iterating with a variable i. Now we can solve a quadratic in b:

Statistics Difficulty: Medium Publish Date: Feb 07 2015

$b^2 - b \cdot k + i^2 - i \cdot n = 0$

We can simply used the quadratic formula here, to check if the roots meet our conditions and are distinct.

Set by trophies

```
Problem Setter's code:
#include <bits/stdc++.h>
using namespace std;
typedef long long 11;
map <11, 11> squareroot;
11 det (11 a, 11 b, 11 c)
    return b*b-4*a*c;
int main()
{
    for (ll g=1;g<=100000; g++) squareroot[g*g]=g;</pre>
    11 T; cin >> T;
    for (11 g=0; g<T; g++)
        11 answer=0;
        ll n, k, t, o; cin >> n >> k >> t >> o;
        for (ll a=1; a<=t; a++)
            11 first=1;
            11 second=-k;
            11 third=a*a-a*n;
            11 l=det(first, second, third);
            11 squarerootl=squareroot[1];
            if (squarerootl*squarerootl==1)
                11 check1=-second+squarerootl, check2=-second-squarerootl;
                if (check1%2==0)
                {
                     check1/=2;
                     if (check1>=1 && check1<=o)
                     answer++;
                if (check2%2==0 && squareroot1!=0)
                     check2/=2;
                     if (check2>=1 && check2<=o)
                     answer++;
            }
        cout << answer << '\n';</pre>
    }
```

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