NumWays

Max Score: **50**

How many ways can you choose a subset from the set P = {1, 2, 3, ..., n}? The subset *S* should meet the following 2 conditions:

- When you choose x (x ∈ P, x is an element of the set P) to create *S*, you cannot choose a * x and b * x for *S*.
- *S* should not contain any elements in set C = {c_1, c_2, ..., c_m}

Input format:

n a b
m c_1 c_2 ... c_m

Output format:

(number of ways of forming S) % 1000000007 i.e., remainder when S is divided by 1000000007.

Constraints:

1 <= n <= 1000
2 <= a < b <= n
b % a != 0 (b is not divisible by a)
0 <= m < 10
1 <= c_i <= n

Sample Input:

3 2 3
0

Sample Output:

5

Explanation:

{}, {1}, {2}, {3}, {2, 3}

Chat

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```
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     return 0;
12 }
13
```

Use a custom test case

Compile & Test Submit Code

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