Ouestion 1 Correct Marked out of	You are a bank account hacker. Initially you have 1 rupee in your account, and you want exactly N rupees in your account. You wrote two hacks, first hack can multiply the amount of money you own by 10, while the second can multiply it by 20. These hacks can be used any
.00	number of time. Can you achieve the desired amount N using these hacks.
* Flag question	Constraints:
	1<=T<=100
	1<=N<=10^12
	Input
	The test case contains a single integer N.
	Output
	For each test case, print a single line containing the string "1" if you can make exactly N rupees or "0" otherwise.
	SAMPLE INPUT
	1

```
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 1 - /*
  2
      * Complete the 'myFunc' function below.
  3
      * The function is expected to return an INTEGER.
  4
      * The function accepts INTEGER n as parameter. */
      int myFunc(int n)
  6
  7 + (
  8 +
        while(n>1){
 9 +
           if(n%20==0){
               n/=20;
10
11
       else if(n%10==0)
12
13 +
14
           n/=10;
15
16
       else
17 +
18
       return 0;
19
20
21 return 1;
```

23	-			
	Test	Expected	Got	
~	printf("%d", myFunc(1))	1	1	~
~	printf("%d", myFunc(2))	ø	0	~
~	printf("%d", myFunc(10))	1	1	~
~	printf("%d", myFunc(25))	9	Ð	~

powerSum has the following parameter(s): Constraints 1 ≤ X ≤ 1000 2 S N S 10

Question 2

Flag question

Correct Marked out of 1.00

For example, if X = 13 and N = 2, we have to find all combinations of unique squares adding up to 13. The only solution is $2^2 + 3^2$.

Find the number of ways that a given integer, X, can be expressed as the sum of the Nth powers of unique, natural numbers.

Function Description

Complete the powerSum function in the editor below. It should return an integer that represents the number of possible combinations.

X: the integer to sum to N: the integer power to raise numbers to Input Format

The first line contains an integer X. The second line contains an integer N.

Answer: (penalty regime: 0 %)

Reset answer

```
1 . /*
     * Complete the 'powerSum' function below.
 3
    * The function is expected to return an INTEGER.
    * The function accepts following parameters:
     * 1. INTEGER x
    * 2. INTEGER n
    +/
    int powerSum(int x, int m, int n)
11 + {
12 -
        if(x==0){
13
           return 1;
14
15 -
       if(x<0){
16
           return 0;
17
18
        int count=0;
19 +
       for(int i=m;;i++){
20
           int power=1;
           for(int j=0;j<n;j++){
21 .
22
                power*=i;
23
24 -
        if(power>x){
25
           break;
26
27
        count+=powerSum(x-power,i+1,n);
28
   return count;
30 }
```

```
11 - {
       if(x=0){
12 +
           return 1;
13
14
       if(x<0){
15 +
16
           return 0;
17
18
       int count=0;
       for(int i=m;;i++){
19 +
           int power=1;
20
           for(int j=0;j<n;j++){
21 +
               power"-i;
22
23
       if(power>x)(
24 -
25
           break;
26
       count+=powerSum(x-power,i+1,n);
27
28
29
   return count;
30 }
```

	Test	Expected	Got	
~	printf("%d", powerSum(10, 1, 2))	1	1	~