## N으로 표현

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## References

```
https://school.programmers.co.kr/learn/courses/30/lessons/42895
```

## References

1. Dynamic Programming

## 1. Dynamic Programming

```
import math
def solution(N, number):
   dp = [[], [N]]
   count = 1
   if number in dp[count]:
        return 1
   dp.append([N * 11, N + N, N // N, N * N])
    count += 1
   if number in dp[count]:
        return count
   while count < 8:
       count += 1
        if number == N * ((10 ** count) // 9):
           return count
       cur = [N * ((10 ** count) // 9)]
        for i in range(1, math.ceil(count / 2) + 1):
           for a in dp[i]:
                for b in dp[count - i]:
```

N으로 표현 1

```
if number == a + b or number == abs(a - b) or number == a * b:
    return count
if a != 0 and number == b // a:
    return count
if b != 0 and number == a // b:
    return count
cur.append(a + b)
cur.append(abs(a - b))
cur.append(a * b)
if a != 0 and b // a != 0:
    cur.append(b // a)
elif b != 0 and a // b != 0:
    cur.append(a // b)
dp.append(cur)
```

N으로 표현 2