

```
def eat_candy(N, K):  
    bites = 0  
  
    while N > 0:  
        if N >= K:  
            N -= K  
            bites += 1  
        else:  
            bites = -1  
            break  
  
    return bites  
  
T = int(input())  
  
for _ in range(T):  
    N, K = map(int, input().split())  
  
    bites = eat_candy(N, K)  
    print(bites)
```