```
#include<stdio.h>
  1
  2
           int nf(int a, int b) {
  if (a == 1) return 0;
  return (nf(a - 1, b) + b) % a;
  3
  4
  5
  6
  7
           int main(void) {
  int n, k, nc, i;
  scanf("%d", &nc);
  for (i = 1; i <= nc; i++) {
     scanf("%d %d", &n, &k);
     printf("Case %d: %d\n", i, nf(n, k) + 1);
}</pre>
  8
  9
10
11
12
13
14
15
               return 0;
16
           }
```