

```
#include<stdio.h>

int main(){
    int P, Q, n;
    long Ln, Ln1, Ln2;
    int i;
    scanf("%d%d%d",&P,&Q,&n);

    // Run the sequence only till the 5th element for part 1
    Ln2 = 0;
    Ln1 = 1;
    for(i = 2; i <= 5; i++){
        Ln = P*Ln1 - Q*Ln2;
        Ln2 = Ln1;
        Ln1 = Ln;
    }
    printf("%ld\n",Ln);

    // Before running the sequence till the nth element, take care
    if(n == 0)
        Ln = 0;
    else if(n == 1)
        Ln = 1;
    else{
        Ln2 = 0;
        Ln1 = 1;
        for(i = 2; i <= n; i++){
            Ln = P*Ln1 - Q*Ln2;
            Ln2 = Ln1;
            Ln1 = Ln;
        }
    }
    printf("%ld",Ln);
    return 0;
}
```