

```

1  /// Com Pro 1 Midterm Exam 2557-1: Series of What Sign
2  /// Author: Pinyo Taeprasartsit
3
4  #include <stdio.h>
5
6  void main() {
7      int a1, a2, a3, a4, N;
8      scanf("%d %d %d %d", &a1, &a2, &a3, &a4);
9      scanf("%d", &N);
10
11     int sum = a1 + a2 + a3 + a4;
12     int i = 4;
13     while(i < N) {
14         int x = (a3 + a1) * 5 / 4;
15         if(x % 2 != 0)
16             x = -x;
17         sum += x;
18         a1 = a2;
19         a2 = a3;
20         a3 = a4;
21         a4 = x;
22         ++i;
23         if(x > 100000000)
24             printf("Warning x is too large");
25     }
26     printf("%d", sum);
27 }

```