```
#include <stdio.h>
int recur(int n, int a, int b, int t0, int t1)
{
  if (n == 0)
     return t0;
  else if (n == 1)
     return t1;
  else
 return a * recur(n - 1, a, b, t0, t1) + b * recur(n - 2, a, b, t0, t1);
}
int main()
{
  int n, a, b, t0, t1, i;
  printf("Enter coefficients a and b (for Tn = a*Tn-1 + b*Tn-2): ");
  scanf("%d %d", &a, &b);
  printf("Enter first two terms TO and T1: ");
  scanf("%d %d", &t0, &t1);
  printf("Enter number of terms: ");
  scanf("%d", &n);
  printf("Sequence: ");
  for (i = 0; i < n; i++)
     printf("%d ", recur(i, a, b, t0, t1));
  return 0;
}
```

```
main.c

1 #include <stdio.h>
2 int recur(int n, int a, int b, int t0, int t1)
3 - {
4     if (n == 0)
5         return 10;
6     else if (n == 1)
7         return a * recur(n - 1, a, b, t0, t1) + b * recur(n - 2, a, b, t0, t1);
10 }
11 int main()
12 - {
13     int n, a, b, t0, t1, i;
14     printf("Enter coefficients a and b (for Tn = a*Tn-1 + b*Tn-2): ");
15     scanf("%d %d", &a, &b);
16     printf("Enter first two terms T0 and T1: ");
17     scanf("%d %d", &a, &b);
18     printf("Enter number of terms: ");
19     scanf("%d %d", &a, &b);
20     printf("Sequence: ");
21     for (i = 0; i < n; i =+);
22         printf("%d ", recur(i, a, b, t0, t1));
23     return 0;
```