

```
int m = 10;
int n = 7;

main()
{
    int m = 8;

    n = f();
    print n;
}

int f()
{
    int n=1;
    int k=3;

    n = m + k;
    if (n > 1)
    {
        m = m - 4;
        return ( n * f() );
    }
    else return 1 ;
}
```

```

0      set 0, 4
1      set 1, 7
2      set 2, 10
3      set 3, 7
4      set 6, 8
5      set 1, D[1] + 1
6      set D[1], 7 + 4
7      set D[1]+1, D[0]
8      set 0, D[1]
9      set 1, D[1] + 4
10     jump 14
11     set 3, D[D[1]]
12     set write, D[3]
13     halt
14     set D[0]+2, 1
15     set D[0]+3, 3
16     set D[0]+2, D[D[0]+3] + D[2]
17     jumpt 22, D[D[0]+2] > 1
18     set D[0] - 1, 1
19     set 1, D[0] - 1
20     set 0, D[D[0] + 1]
21     jump D[D[1] + 1]
22     set 2, D[2] - 4
23     set 1, D[1] + 1
24     set D[1], 25 + 4
25     set D[1] + 1, D[0]
26     set 0, D[1]
27     set 1, D[1] + 4
28     jump 14
29     set D[0]-1, D[D[1]] * D[D[0] + 2]
30     set 1, D[0] - 1
31     set 0, D[D[0] + 1]
32     jump D[D[1] + 1]

```