[15 marks] Describe the complete execution sequence (line-by-line) for the following program. Record your answer in Blackboard according to the instructions described there.

```
01  #include <stdio.h>
02
03  #define STR_SIZE 20
04  #define TMOUNTS 2
05
06  struct Unit
07  {
08     char identifier[STR_SIZE + 1];
09     double x;
10     double y;
11     double weightFactor;
12  };
13  struct TVMount
13  {
14     char description[STR_SIZE + 1];
15     struct Unit limits;
16     struct Unit tv;
17  };
18
19  double calcWeight(const struct Unit* itm)
20  {
21     double weight = itm->x * itm->y * itm->weightFactor;
22     printf("%-15s:%6.2lf\n", itm->identifier, weight);
23
24     return weight;
25  }
26
27  int main(void)
28  {
29     int i;
30     double weight, totalWeightFree = 0;
31     struct TVMount room[TMOUNTS] = {
32                       { "Living Room",  {"Cheetah Mount", 1.5, 1, 80},
33                                         {"50-Inch TV", 3, 2, 2.5} } };
34     for (i = 0; i < TMOUNTS; i++)
35     {
36        if (room[i].description[0] != '\0')
37        {
38           printf("Room: %s\n", room[i].description);
39           weight = calcWeight(&room[i].limits) - calcWeight(&room[i].tv);
40           printf("Unused Weight: %6.2lf\n", weight);
41           totalWeightFree += weight;
42        }
43     }
44
45     printf("Total Unused Weight: %6.2lf\n", totalWeightFree);
46
47     return 0;
48  }
```