Give the output of the C program shown below:

```c
#include <stdio.h>

typedef struct item {
     int value;
     struct item *next;
} Item;

int main(void) {
     Item a, b, c;
     a.value = 1; a.next = &b;
     b.value = 1; b.next = &c;
     c.value = 1; c.next = &a;
     Item *ptr = &a;
     for (int z=2; z<7; z++) {
          ptr->value = ptr->value * z;
          ptr = ptr->next;
     }
     printf("%d and %d and %d\n",
          a.value, b.value, c.value);
     return 0;
}
```

Output:

```
10 and 18 and 4
```

Give the output of the C program shown below when the user enters the input: 3 1 4 1 5 9 2 6

```c
#include <stdio.h>

typedef struct point {
     int x; int y;
} Point;

double f(Point a, Point b) {
  if (a.x == b.x) return -999999999;
  return (double)(b.y-a.y) / (double)(b.x-a.x);
}

int main(void) {
     Point data[5];
     for (int a=0; a<4; a++) {
          scanf("%d", &data[a].x);
          scanf("%d", &data[a].y);
     }
     printf("%lf\n", f(data[1], data[3]) );
     printf("%lf\n", f(data[0], data[2]) );
     return 0;
}
```

Output:

```
-2.500000
4.000000
```