

Question 1 Tracing C Code [6 pts]

What is the output when the following C code is executed?

```
#include <stdio.h>
#include <stdlib.h>

int f (int a, int x) {
    int y = a / 2;
    x = x + 3;
    printf("y = %d x = %d\n", y, x);
    return x - y;
}

int main (void) {
    int x = 3;
    for (int i = 2; i < 5; i++) {
        printf("i = %d x = %d\n", i, x);
        x += f (x, i);
    }
    return EXIT_SUCCESS;
}
```