

Name:

**Problem 5 (20 Points): Using Functions in C**

```
#include <stdio.h>

int Swap(int a, int b);

main()
{
    int a;
    int b;

    scanf("%d", &a);
    scanf("%d", &b);

    Swap(a, b);

    printf("a = %d\n", a);
    printf("b = %d\n", b);
}

/* This function swaps the value of the two input parameters */
int Swap(int a, int b)
{
    int x;

    x = a;
    a = b;
    b = x

    return x;
}
```

Part A. If the user enters **23 45** for the input, what is the output of this program?

Part B. Suggest a way to fix this program using only the concepts described in class thus far?