Name : _____

Instructor (circle) Cordes Zhang

CS 100 Exam I

What is the output of the C program shown below when the user enters the input shown at the right?

```
2 9
5 18
13 4
27 5
```

```
#include <stdio.h>
int main(void) {
    int a, x, y, z=0;
    for (a=0; a<4; a++) {
        scanf("%d %d", &x, &y);
        if (x < y) {
            z = z - x;
            printf("%d\n", y%x);
        }
        else
            z = z + x;
    }
    printf("%d\n", z);
    return 0;
}</pre>
```

What is the output of the C program shown below when the user enters the input shown at the right?

alabama

```
#include <stdio.h>
#include <string.h>
int main(void) {
     char str[20];
     scanf("%s", str);
     int a = 0;
     int b = strlen(str) - 1;
     int c = 0;
     while (a \le b) {
          if (str[a] == str[b])
               c = c + 1;
          printf("%c + %c\n", str[a], str[b]);
          a = a + 1;
         b = b - 1;
     printf("%d\n", c);
     return 0;
```

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```
18 4
3 14
30 9
5 19
```

```
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int main(void) {
    int a, x, y, z=0;
    for (a=0; a<4; a++) {
        scanf("%d %d", &x, &y);
        if (x < y) {
            z = z - x;
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        else
            z = z + x;
    }
    printf("%d\n", z);
    return 0;
}</pre>
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```
What is the output of the C program shown below when the user enters the input shown at the right?
```

```
abxyba
```

```
#include <stdio.h>
#include <string.h>
int main(void) {
    char str[20];
    scanf("%s", str);
    int a = 0;
    int b = strlen(str) - 1;
    int c = 0;
    while (a \le b) {
          if (str[a] == str[b])
               c = c + 1;
         printf("%c + %c\n", str[a], str[b]);
          a = a + 1;
         b = b - 1;
    printf("%d\n", c);
    return 0;
```