What is the output of the C program shown below?

```
#include <stdio.h>

int main(void) {

        int sum = 0;
        for (int x=2; x<6; x++) {
                sum = sum + x;
        }
        printf("%d\n", sum);

        int num = 2018, val;
        while ( num > 0 ) {
                val = num % 10;
                printf("%d\n", val);
                num = num / 10;
        }

        return 0;
}
```
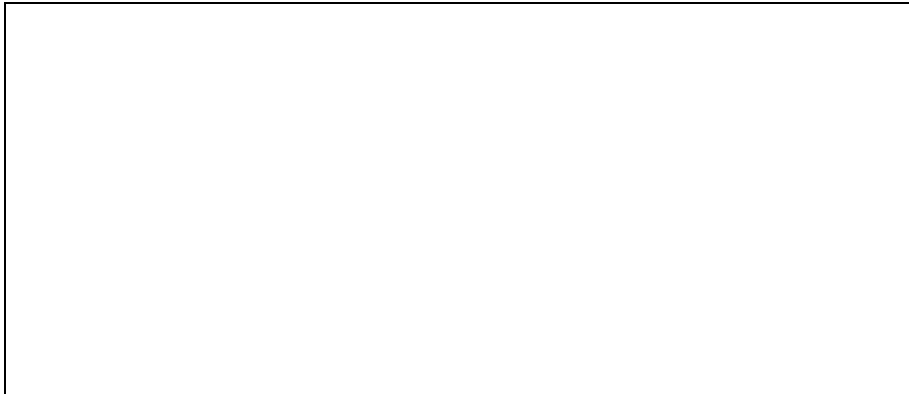
What is the output of the C program shown below when the user enters the following data as input? **cereal   serial**

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

int main(void) {
        char str1[10], str2[10];
        scanf("%s", str1);
        scanf("%s", str2);
        int len = strlen(str1);
        printf("%d\n", len);
        int num1 = 0, num2 = 0;
        for (int x=0; x<len; x++) {
                if (str1[x] == str2[x])
                        num1 ++;
                else
                        num2 ++;
        }
        printf("%d and %d\n", num1, num2);
        return 0;
}
```