RomanNum

Write a C function romanNum() that takes in a string *str* as parameter that contains a Roman number, converts the Roman number into the corresponding decimal number and returns the decimal number to the calling function. Assume that the user will key in a Roman number between I (i.e. 1) and XXX (i.e. 30), and no error checking on user input is required. The decimal numbers for the Roman numbers from I to X are given as follows: I = 1, II = 2, III = 3, IV = 4, V = 5, VI = 6, VII = 7, VIII = 8, IX = 9 and X = 10.

A sample program template is given below:

```
#include <stdio.h>
#define TRUE 1
#define FALSE 0
int romanNum(char *str);
int main()
   int num;
  char roman[10];
   printf("Enter a Roman number: \n");
   scanf("%s", roman);
   num = romanNum(roman);
   printf("romanNum(): %d\n", num);
   return 0;
}
int romanNum(char *str)
{
   /* Write your code here */
```

Some test input and output sessions are given below:

```
(1) Test Case 1
    Enter a Roman number:
    III
    romanNum(): 3

(2) Test Case 2
    Enter a Roman number:
    IX
    romanNum(): 9

(3) Test Case 3
    Enter a Roman number:
    XXIV
    romanNum(): 24

(4) Test Case 4
    Enter a Roman number:
    XXVI
    romanNum(): 26
```

Enter a Roman number:

(5) Test Case 5

XXIX

romanNum(): 29

```
#include <stdio.h>
#define TRUE 1
#define FALSE 0
int romanNum(char *str);
int main()
 int num;
  char roman[10];
  printf("Enter a Roman number: \n");
 scanf("%s",roman);
  num = romanNum(roman);
  printf("romanNum(): %d\n", num);
 return 0;
int romanNum(char *str)
  int i = 0;
  int num = 0;
  while(str[i]!='\0')
     if(str[i]=='X')
       num = num + 10;
       i++;
       continue;
     else if(str[i]=='I')
       if(str[i+1]=='V')
          num = num +4;
          i=i+2;
          continue;
       else if(str[i+1]=='X')
          num = num + 9;
          i=i+2;
          continue;
       else
          num = num +1;
          i++;
          continue;
     }
     else if(str[i]=='V')
       num = num + 5;
       i++;
       continue;
  return num;
```