octStrToDec

Write a function octStrtodec() that accepts a character string **str** containing an octal number as parameter, converts the octal string into the equivalent decimal number (i.e. converts the number with base value 8 to base value 10), and returns the converted decimal number to the calling function.

A sample program template is given below:

```
#include <stdio.h>
int octStrTodec(char *str);
int main()
{
    char str[20],*sp;
    int num;

    printf("Enter an octal number: \n");
    scanf("%s",str);
    num=octStrTodec(str);
    printf("octStrTodec(): %d\n",num);
    return 0;
}
int octStrTodec(char *str)
{
    /* Write your code here */
}
```

Some test input and output sessions are given below:

```
(1) Test Case 1
    Enter an octal number:
5
    octStrTodec(): 5

(2) Test Case 2
    Enter an octal number:
    30
    octStrTodec(): 24

(3) Test Case 3
    Enter an octal number:
    100
    octStrTodec(): 64

(4) Test Case 4
    Enter an octal number:
    300
    octStrTodec(): 192
```

```
#include <stdio.h>
int octStrTodec(char *str);
int main()
  char str[20],*sp;
 int num;
 printf("Enter an octal number: \n");
 scanf("%s",str);
 num=octStrTodec(str);
 printf("octStrTodec(): %d\n",num);
 return 0;
int octStrTodec(char *str)
  int remainder, dec = 0, n=0;
  int num = atoi(str);
  while(num!=0)
     remainder = num%10;
     dec = dec + remainder*pow(8,n);
     n++;
     num = num/10;
  return dec;
```