processString

Write a C function that accepts a string str and returns the total number of vowels totVowels and digits totDigits in that string to the caller via call by reference. The function prototype is given as follows:

```c
void processString(char *str, int *totVowels, int *totDigits);
```

A sample program template is given below to test the function:

```c
#include <stdio.h>
#include <string.h>
void processString(char *str, int *totVowels, int *totDigits);
int main()
{
   char str[50], *p;
   int totVowels, totDigits;

   printf("Enter the string: \n");
   fgets(str, 80, stdin);
   if (p=strchr(str,'\n')) *p = '\0';
   processString(str, &totVowels, &totDigits);
   printf("Total vowels = %d\n", totVowels);
   printf("Total digits = %d\n", totDigits);
   return 0;
}
void processString(char *str, int *totVowels, int *totDigits)
{
      /* Write your code here */
}
```

Some test input and output sessions are given below:

(1) Test Case 1:
Enter the string:
I am one of the 400 students in this class.
Total vowels = 11
Total digits = 3

(2) Test Case 2:
Enter the string:
I am a boy.
Total vowels = 4
Total digits = 0

(3) Test Case 3:
Enter the string:
1 2 3 4 5 6 7 8 9

```c
void processString(char *str, int *totVowels, int *totDigits)
{
 int digits=0;
 int vowels=0;
 int i;
 for(i=0;str[i]!='\0';i++)
 {
   if(str[i]>='0'&&str[i]<='9')
   {
     digits++;
   }
   if(str[i]=='a'||str[i]=='e'||str[i]=='i'||str[i]=='o'||str[i]=='u'||str[i]=='A'||str[i]=='E'||str[i]=='I'||str[i]=='O'||str[i]=='U')
   {
     vowels++;
   }
 }
  *totVowels = vowels;
  *totDigits = digits;
}
```

Total vowels = 0
Total digits = 9

(4) Test Case 4:
Enter the string:
ABCDE
Total vowels = 2
Total digits = 0