

**ENG236 Computer Programming****Quiz 11 (19 November 2009)**

Instructions: open book, 20 minutes, 100 marks

Please find below a function `myStrlen()` that performs the same function as `strlen()`.

```
#include <iostream>
using namespace std;
int myStrlen(char *);

int main()
{ char String1[80];
  cout << "Please enter a word: ";
  cin >> String1;

  cout << "The length of ";
  cout << String1 << " is ";
  cout << myStrlen(String1);
  cout << "." << endl;

  return 0;
}

int myStrlen(char * string)
{
  int i = 0;
  char *pString = string;

  while (*pString != '\0')
  {
    i++;
    pString += 1;
  }
  return i;
}
```

Consider a new function `myStrCnt(char aChar, char * string)` on the right hand side that returns the number of times that the character `aChar` occurs in `string`. Your task is to implement the `myStrCnt()` function.

```
#include <iostream>
using namespace std;
int myStrCnt(char, char *);

int main()
{
  char aChar, String1[80];

  cout << "Please enter a word: ";
  cin >> String1;

  cout << "Please enter a
character to search for: ";
  cin >> aChar;

  cout << "The number of
occurrence of ";
  cout << "'" << aChar << "'" << "
in " << String1 << " is ";
  cout << myStrCnt(aChar, String1)
<< "." << endl;

  return 0;
}

int myStrCnt(char aChar, char *
string)
{
  int i = 0;
  char *pString = string;

  while (*pString != '\0')
  {
    if (*pString == aChar)
      i++;
    pString += 1;
  }

  return i;
}
```