longestStrInAr

Write a C function longestStrlnAr() that takes in an array of strings *str* and *size* (>0) as paramters, and returns the longest string and also the length of the longest string via the pointer parameter *length*. If two or more strings have the same longest string length, then the first appeared string will be retruned to the calling function. For example, if *size* is 5 and the array of strings is {"peter","john","mary","jane","kenny"}, then the longest string is "peter" and the string length is 5 will be returned to the calling function. The function prototype is:

```
char *longestStrInAr(char str[N][40], int size, int *length);
```

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

```
#include <stdio.h>
#include <string.h>
#define N 20
char *longestStrInAr(char str[N][40], int size, int *length);
int main()
{
 int i, size, length;
 char str[N][40], first[40], last[40], *p, *result;
 char dummychar;
 printf("Enter array size: \n");
 scanf("%d", &size);
 scanf("%c", &dummychar);
 for (i=0; i<size; i++) {
   printf("Enter string %d: \n", i+1);
   fgets(str[i], 40, stdin);
   if (p=strchr(str[i], '\n')) *p = '\0';
 result = longestStrInAr(str, size, &length);
 printf("longest: %s \nlength: %d\n", result, length);
 return 0;
char *longestStrInAr(char str[N][40], int size, int *length)
 /* Write your code here */
```

Some sample input and output sessions are given below:

```
(1) Test Case 1:
Enter array size:
4
Enter string 1:
Kenny
Enter string 2:
Mary
Enter string 3:
```

Peter

Enter string 4:

Sun

longest: Kenny

length: 5

(2) Test Case 2:

Enter array size:

2

Enter string 1:

Sun

Enter string 2:

Mary

longest: Mary length: 4

```
char *longestStrInAr(char str[N][40], int size,
int *length)
{
    *length = 0;
    int i,result;
    for(i=0;i<size;i++)
    {
        if(*length<strlen(str[i]))
        {
            *length = strlen(str[i]);
            result = i;
        }
    }
    return str[result];
}</pre>
```