## stringncpy

Write a C function **stringncpy()** that copies not more than n characters (characters that follow a null character are not copied) from the array pointed to by s2 to the array pointed to by s1. If the array pointed to by s2 is a string shorter than n characters, null characters are appended to the copy in the array pointed to by s1, until n characters in all have been written. The stringncpy() returns the value of s1. The function prototype is given below:

```
char *stringncpy(char *s1, char *s2, int n);
```

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

```
#include <stdio.h>
#include <string.h>
char *stringncpy(char *s1, char *s2, int n);
int main()
 char targetStr[40], sourceStr[40], *target, *p;
 int length;
 printf("Enter the string: \n");
 fgets(sourceStr, 40, stdin);
 if (p=strchr(sourceStr,'\n')) *p = '\0';
 printf("Enter the number of characters: \n");
 scanf("%d", &length);
 target = stringncpy(targetStr, sourceStr, length);
 printf("stringncpy(): %s\n", target);
 return 0;
char *stringncpy(char *s1, char *s2, int n)
 /* Write your code here */
```

Some sample input and output sessions are given below:

```
(1) Test Case 1:
    Enter the string:
    I am a boy.
    Enter the number of characters:
    7
    stringncpy(): I am a
(2) Test Case 2:
    Enter the string:
    I am a boy.
    Enter the number of characters:
    21
    stringncpy(): I am a boy.
```

(3) Test Case 3:

Enter the string:

somebody

Enter the number of characters:

7

stringncpy(): somebod

(4) Test Case 4:

Enter the string:

somebody

Enter the number of characters:

21

stringncpy(): somebody