mergeStr

Write a C function mergeStr(), which takes in 3 parameters \boldsymbol{a} , \boldsymbol{b} and \boldsymbol{c} , merges two alphabetically ordered character strings \boldsymbol{a} and \boldsymbol{b} into character string \boldsymbol{c} according to alphabetical order. For example, if \boldsymbol{a} is "agikmpq" and \boldsymbol{b} is "bcdefhjlnr", then the resultant string \boldsymbol{c} will be "abcdefghijklmnpqr". The string \boldsymbol{c} will be passed to the caller via call by reference.

A sample program template is given below:

```
#include <stdio.h>
#include <string.h>
void mergeStr(char *a, char *b, char *c);
int main()
  char a[80],b[80];
  char c[80];
  printf("Enter the first string a: \n");
  scanf("%s",a);
  printf("Enter the second string b: \n");
  scanf("%s",b);
  mergeStr(a,b,c);
  printf("mergeStr(): %s", c);
  return 0;
void mergeStr(char *a, char *b, char *c)
{
  /* Write your code here */
}
```

Some test input and output sessions are given below:

```
(1) Test Case 1:
   Enter the first string a:
   Enter the second string b:
  bdg
   mergeStr(): abcdeg
(2) Test Case 2:
   Enter the first string a:
   agikmpq
   Enter the second string b:
   bcdefhjlnr
   mergeStr(): abcdefghijklmnpqr
(3) Test Case 3:
   Enter the first string a:
   Enter the second string b:
   mergeStr(): aaffkk
(4) Test Case 4:
```

Enter the first string a:

afkm

Enter the second string b:

bbbggg
mergeStr(): abbbfgggkm