14. Longest Common Prefix

Easy

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Write a function to find the longest common prefix string amongst an array of strings.

If there is no common prefix, return an empty string "".

Example 1:

Input: ["flower","flow","flight"]  
Output: "fl"

Example 2:

Input: ["dog","racecar","car"]  
Output: ""  
Explanation: There is no common prefix among the input strings.

Note:

All given inputs are in lowercase letters a-z.

char\* longestCommonPrefix(char\*\* strs, int strsSize) {

if(strsSize==0) return "";

int len=strlen(strs[0]);

int i=0;

char\* ret=(char\*)malloc(256);

//memset(ret,'\0',1);

strcpy(ret,"");

char ch=strs[0][i];

while(ch!='\0'){

//printf("i: %d\n",i);

//printf("ch: %c\n",ch);

for(int k=1;k<strsSize;k++){

if(strs[k][i]!=ch){

//if(i==0) return "";

memcpy(ret,strs[0],i);

return ret;

}

}

i++;

ch=strs[0][i];

}

memcpy(ret,strs[0],i);

return ret;

}