Implement a sorting function using qsort() to read and sort a list of strings stored in an array

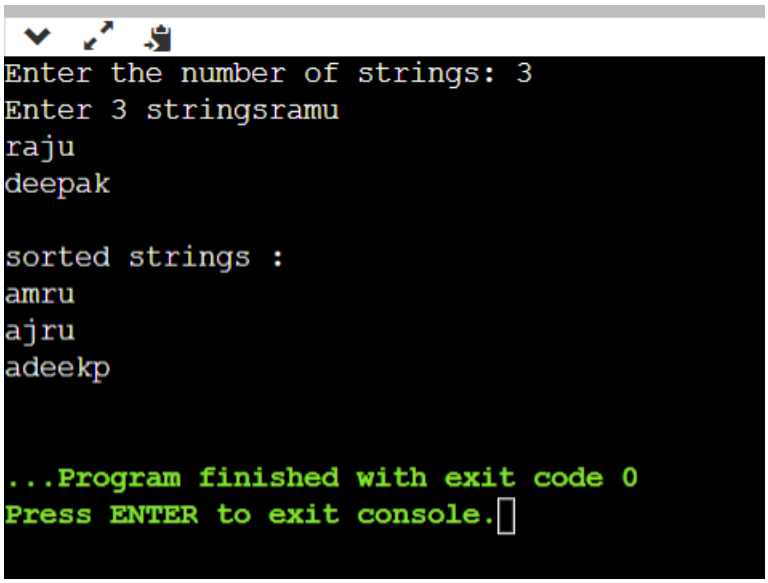
PROGRAM:

```
#include<stdio.h>
#include<string.h>
void swap(char* x,char* y){
char t;
t=*x;
*x=*y;
*y=t;
}
int partition(char a[],int first, int last){
int i,j;
char x;
x=a[last];
i=first-1;
for(j=first;j<last;j++){
if(a[j]<=x)
{
i=i+1;
swap(&a[i],&a[j]);
}
}
swap(&a[i+1],&a[last]);
return i+1;
}
void quicksort(char a[],int first,int last){
```

```
int pi;
if(first<last){
pi=partition(a,first,last);
quicksort(a,first,pi-1);
quicksort(a,pi+1,last);
}
}
void main(){
char a[20][100];
int n,i,first=0,last,size;
printf("Enter the number of string you want to store: ");

scanf("%d",&size);
printf("Enter %d strings",size);
for(i=0;i<=size;i++)
{
fgets(a[i],100,stdin);
last=strlen(a[i])-2;
quicksort(a[i],first,last);
}
printf("\nsorted strings are:");
for(i=0;i<5;i++)
printf("%s",a[i]);
}
```

OUTPUT:


Enter the number of strings: 3
Enter 3 stringsramu
raju
deepak
sorted strings :
amru
ajru
adeekp
...Program finished with exit code 0
Press ENTER to exit console.