```
//
// Solution to C dynamic strings allocation and sorting primer by
// Golden G. Richard III (@nolaforensix).
                                                      DO NOT
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
                                              DISTRIBUTE!
#define BUFSIZE 1024
int cmp(const void *p1, const v(id *p2) {
 char *s1 = *(char **)p1;
 char *s2 = *(char **)p2;
 return strcmp(s1, s2);
}
*/
int cmp(const void *p1, const void *p2) {
 return strcmp( *(char **)p1, *(char **)p2);
int main(int argc, char *argv[]) {
 char **strings;
  int i,n, len;
  char buf[BUFSIZE+1];
  printf("Enter # of strings:");
  fflush(stdout);
  fgets(buf, BUFSIZE, stdin);
  n=atoi(buf);
  strings=malloc(n * sizeof(char *)); // <---</pre>
  for (i=0; i < n; i++) {
   printf("Enter string # %d.\n", i+1);
    fgets(buf, BUFSIZE-1, stdin);
   len=strlen(buf);
   if (buf[len-1] == '\n') {
     buf[len-1]=0;
   strings[i]=malloc((strlen(buf)+1) * sizeof(char));
    strcpy(strings[i], buf);
  }
  qsort(strings, n, sizeof(char *), cmp);
  printf("Sorted strings:\n");
  for (i=0; i < n; i++) {
   printf("%s\n", strings[i]);
                       // get used to doing this--free() the memory
    free(strings[i]);
                       // when it is no longer needed. But beware
                       // use-after-free errors--do not use the
                       // memory again once you free it!
  }
 free(strings);
                       // as before. Clean up memory when it's no
                       // longer needed.
}
```