```
#include "stack4.h"
#include <stdlib.h>
#include <assert.h>

typedef struct list *list;

struct list
{
  void *element;
  list next;
};

list
cons(void *element, list l)
{
  ...
}

struct stack
{
  list elements;
};

list
list_copy(list l)
{
  return l == NULL ? NULL : cons(l -> element, list_copy(l -> next));
}

stack
stack_copy(stack s)
{
  stack temp = malloc(sizeof(struct stack));
  temp -> elements = list_copy(s -> elements);
  return temp;
}
```