

**// stack\_1.c**

```
#include <stdio.h>
#define STACK_SIZE 10

char stack[STACK_SIZE];
int top = 0;

void push(char c);
char pop(void);

int main(void) {
    int c;

    while ( '\n' != (c=getchar()) ) push(c);
    while ( '\n' != (c=pop()) ) putchar(c);

    return 0;
}

void push(char c) {
    if (top < STACK_SIZE) stack[top++] = c;
    else printf("Stekas pilnas\n");
}

char pop(void) {
    if (top > 0) return stack[--top];
    printf("\nStekas tuscias");
    return '\n';
}
```

**12345**  
**54321**  
**Stekas tuscias**