```c
//第一题:用栈实现字符串逆序
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

#define MAX_SIZE 100

typedef struct {
    int data[MAX_SIZE];
    int top;
} Stack;

void initStack(Stack* stack) {
    stack->top = -1;
}

int isFull(Stack* stack) {
    return stack->top == MAX_SIZE - 1;
}

int isEmpty(Stack* stack) {
    return stack->top == -1;
}

int push(Stack* stack, int value) {
    if (isFull(stack)) {
        return -1;
    }
    stack->data[++(stack->top)] = value;
    return 0;
}

int pop(Stack* stack, int* value) {
    if (isEmpty(stack)) {
        return -1;
    }
    *value = stack->data[(stack->top)--];
    return 0;
}

char peek(Stack* stack, char value) {
    if (isEmpty(stack)) {
        return '\0';
    }
    return stack->data[stack->top];
}

int main(){
    Stack s;
    char input[100];

    initStack(&s);

    fgets(input, sizeof(input), stdin);

    int len = strlen(input);
    if (len > 0 && input[len - 1] == '\n') {
        input[len - 1] = '\0';
        len --;
    }

    for(int i = 0; i < len; i++){
        push(&s, input[i]);
    }

    while(!isEmpty(&s)){
        char ch;
        pop(&s, (int*)&ch);
        putchar(ch);
    }

    return 0;
}

//第二题:冰雹猜想
int countSteps(int n){
    if(n == 1) return 0;

    if (n % 2 == 0) {
        return 1 + countSteps(n / 2);
    }else {
        return 1 + countSteps(3*n + 1);
    }
}

int main(){
    int n;
    scanf("%d", &n);

    int steps = countSteps(n);
    printf("%d\n", steps);
    return 0;
}
```