#include <stdio.h>

#include <stdlib.h>

#include <limits.h>

static int reverse(int x) {

int y = 0;

while (x != 0) {

int n = x % 10;

if (y > INT\_MAX / 10 || y < INT\_MIN / 10) {

return 0;

}

y = y \* 10 + n;

x /= 10;

}

return y;

}

int main(void) {

int x = 123;

printf("Original integer: %12d", x);

printf("\nReverse integer : %12d", reverse(x));

return 0;

}

