7. Reverse Integer

Given a 32-bit signed integer, reverse digits of an integer.

Example 1:

```
Input: 123
Output: 321
```

Example 2:

```
Input: -123
Output: -321
```

Example 3:

```
Input: 120
Output: 21
```

```c
1   #include <limits.h>
2
3   int reverse(int x) {
4       long long int res = 0;
5
6
7       while (x != 0) {
8           res = (res * 10) + x % 10;
9           x /= 10;
10      }
11
12      return ((res > INT_MAX) || (res < INT_MIN)) ? 0 : (int)res;
13  }
```