

Reverse a Number – Question & Answer 7

Language / Style: Java – Stack Based Logic

Code Snippet:

```
Stack<Integer> s = new Stack<>();
int n = 1234;
while(n > 0){
    s.push(n % 10);
    n /= 10;
}
int rev = 0;
while(!s.isEmpty()){
    rev = rev * 10 + s.pop();
}
```

Question: Explain why this logic works.

Answer: The stack reverses digit order using LIFO behavior, producing the reversed number correctly.