In-place string reversal

**Input:** Character string S

**Output:** S reversed in place.

**Assumptions:** S uses a 0-based indexing system.

**Algorithm:**

1. char = ‘’ // a character, will store temp values
2. j = length of S - 1
3. for character i in S
   1. if ≤ i:
      1. return S
   2. char = S[i]
   3. S[i] = S[j]
   4. S[j] = char
   5. j = j – 1
   6. i = i + 1