

Method 1:

$$\text{nums} = [2, 3, 1, 1, 4]$$

$$\text{min_jump} = [0, 0, 0, 0, 0]$$

$$i = 0: \quad j = 1, \text{min_jump}[1] = 0 + 1 = 1$$

$$j = 2, \text{min_jump}[2] = 0 + 1 = 1$$

$$i = 1: \quad j = 1, \text{min_jump}[2] < 1 + 1$$

$$j = 2, \text{min_jump}[3] = 1 + 1 = 2$$

$$j = 3, \text{min_jump}[4] = 1 + 1 = 2$$

Return

Method 2: keep track of position reached by $k, k+1$ steps.

$$\text{nums} = [2, 3, 1, 1, 4]$$

$$\text{prev_max} = 0, \text{cur_max} = 0, \text{result} = 0.$$

$$i=0: \quad \text{cur_max} = \max(0, 0+2) = 2$$

$$i=1: \quad \text{prev_max} = 2, \quad \text{result} = 1$$

$$\text{cur_max} = \max(2, 1+3) = 4$$

$$i=2: \quad \text{cur_max} = \max(4, 2+1) = 4$$

$$i=3: \quad \text{prev_max} = \underline{4}, \quad \text{result} = 2$$

$$\text{cur_max} = \max(4, 3+1) = 4$$

Return.

Method 3:

$$\text{nums} = [2, 3, 1, 1, 4]$$

$$\text{steps} = 0, \quad \text{left} = 0, \quad \text{right} = 0$$

$$\text{Step} = 0+1 = 1:$$

$$\text{prev_right} = 0$$

$$i=0, \quad \text{cur_right} = 0+2=2, \quad \text{right} = 2,$$

$$\text{left} = 0+1=1$$

$$\text{step} = 1 + 1 = 2:$$

$$\text{prev_right} = 2$$

$$i=0, \text{cur_right} = 1 + 3 = 4, \text{Return } 2$$