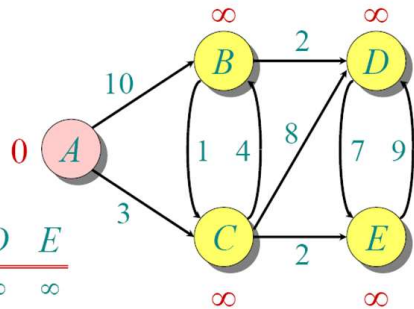


## DIJKSTRA ANIMATED EXAMPLE

 $L(A) = (A, 0)$  $L(B) = (-, \infty)$  $L(C) = (-, \infty)$  $L(D) = (-, \infty)$  $L(E) = (-, \infty)$ 

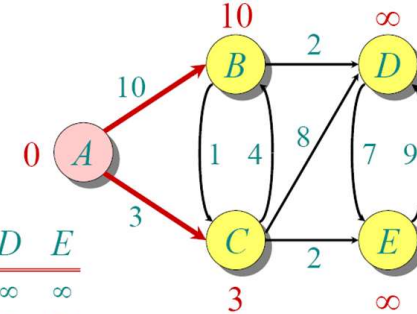
Q:	A	B	C	D	E
	0	$\infty$	$\infty$	$\infty$	$\infty$

 $t = 0: R(A) = S(A) \cup N(A) = \{A\} \cup \{B, C\} = \{A, B, C\}$ 

## DIJKSTRA ANIMATED EXAMPLE

 $L(A) = (A, 0)$  $L(B) = (, )$  $L(C) = (, )$  $L(D) = (, )$  $L(E) = (, )$ 

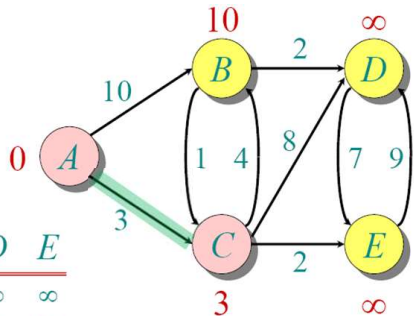
Q:	A	B	C	D	E
	0	$\infty$	$\infty$	$\infty$	$\infty$
		10	3	$\infty$	$\infty$

 $S: \{A\}$  $t = 0: R(A) = S(A) \cup N(A) = \{A\} \cup \{B, C\} = \{A, B, C\}$ 

## DIJKSTRA ANIMATED EXAMPLE

 $L(A) = (A, 0)$  $L(B) = (, )$  $L(C) = (, )$  $L(D) = (, )$  $L(E) = (, )$ 

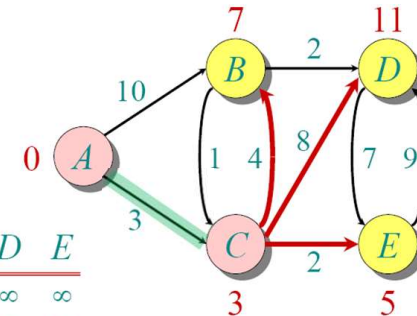
Q:	A	B	C	D	E
	0	$\infty$	$\infty$	$\infty$	$\infty$
		10	3	$\infty$	$\infty$

 $S: \{A, C\}$  $t = 1: R(A) = S(A) \cup N(C) = \{A, C\} \cup \{B, D, E\}$ 

## DIJKSTRA ANIMATED EXAMPLE

 $L(A) = (A, 0)$  $L(B) = (, )$  $L(C) = (, )$  $L(D) = (, )$  $L(E) = (, )$ 

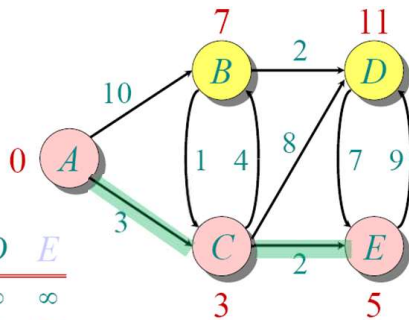
Q:	A	B	C	D	E
	0	$\infty$	$\infty$	$\infty$	$\infty$
		10	3	$\infty$	$\infty$
		7		11	5

 $S: \{A, C\}$  $t = 1: R(A) = S(A) \cup N(C) = \{A, C\} \cup \{B, D, E\}$

## DIJKSTRA ANIMATED EXAMPLE

$L(A) = (A, 0)$   
 $L(B) = (, )$   
 $L(C) = (, )$   
 $L(D) = (, )$   
 $L(E) = (, )$

Q:	A	B	C	D	E
	0	$\infty$	$\infty$	$\infty$	$\infty$
		10	3	$\infty$	$\infty$
		7		11	5



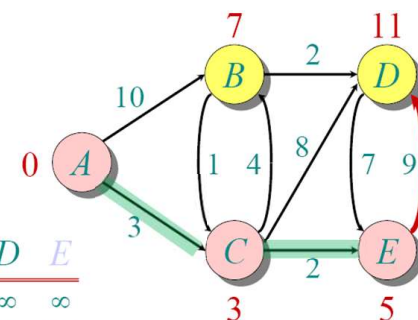
$S: \{A, C, E\}$

$t = 2: R(A) = S(A) \cup N(E) = \{A, C, E\} \cup \{D\}$

## DIJKSTRA ANIMATED EXAMPLE

$L(A) = (A, 0)$   
 $L(B) = (, )$   
 $L(C) = (, )$   
 $L(D) = (, )$   
 $L(E) = (, )$

Q:	A	B	C	D	E
	0	$\infty$	$\infty$	$\infty$	$\infty$
		10	3	$\infty$	$\infty$
		7		11	5
		7		11	



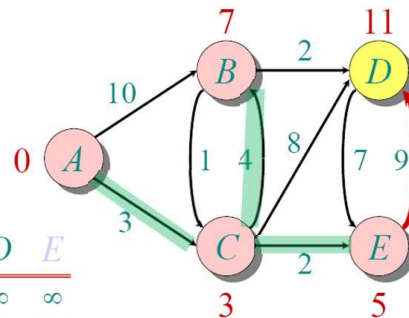
$S: \{A, C, E\}$

$t = 2: R(A) = S(A) \cup N(E) = \{A, C, E\} \cup \{D\}$

## DIJKSTRA ANIMATED EXAMPLE

$L(A) = (A, 0)$   
 $L(B) = (, )$   
 $L(C) = (, )$   
 $L(D) = (, )$   
 $L(E) = (, )$

Q:	A	B	C	D	E
	0	$\infty$	$\infty$	$\infty$	$\infty$
		10	3	$\infty$	$\infty$
		7		11	5
		7		11	



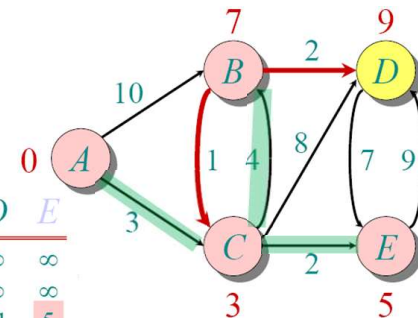
$S: \{A, C, E, B\}$

$t = 3: R(A) = S(A) \cup N(B) = \{A, C, E, B\} \cup \{C, D\}$

## DIJKSTRA ANIMATED EXAMPLE

$L(A) = (A, 0)$   
 $L(B) = (, )$   
 $L(C) = (, )$   
 $L(D) = (, )$   
 $L(E) = (, )$

Q:	A	B	C	D	E
	0	$\infty$	$\infty$	$\infty$	$\infty$
		10	3	$\infty$	$\infty$
		7		11	5
		7		11	
				9	



$S: \{A, C, E, B\}$

$t = 3: R(A) = S(A) \cup N(B) = \{A, C, E, B\} \cup \{C, D\}$

## DIJKSTRA ANIMATED EXAMPLE

$L(A) = (A, 0)$

$L(B) = (C, 7)$

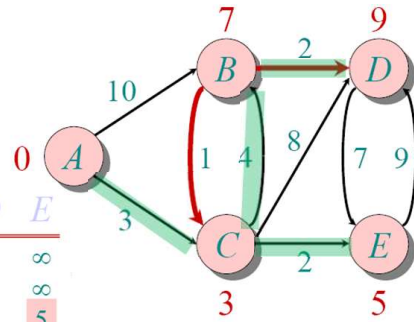
$L(C) = (A, 3)$

$L(D) = (B, 9)$

$L(E) = (C, 5)$

$Q:$

$A$	$B$	$C$	$D$	$E$
0	$\infty$	$\infty$	$\infty$	$\infty$
	10	3	$\infty$	$\infty$
	7		11	5
	7		11	
			9	



$S: \{A, C, E, B, D\}$

$t = 4: S(A) = \{A, C, E, B, D\}$