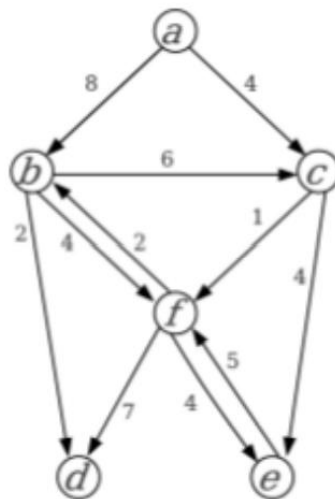


# EXECUÇÃO DO ALGORITMO DE DIJKSTRA

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Exercício 1:



Nó inicial: A Nó final: D

DISTÂNCIAS

A	0
B	inf
C	inf
D	inf
E	inf
F	inf

PREDECESSORES

A	-1
B	-1
C	-1
D	-1
E	-1
F	-1

DISTÂNCIAS

A	0
B	8
C	4
D	inf
E	inf
F	inf

PREDECESSORES

A	-1
B	A
C	A
D	-1
E	-1
F	-1

### DISTÂNCIAS

A	0
B	8
C	4
D	inf
E	8
F	5

### PREDECESSORES

A	-1
B	A
C	A
D	-1
E	C
F	C

### DISTÂNCIAS

A	0
B	7
C	4
D	12
E	8
F	5

### PREDECESSORES

A	-1
B	F
C	A
D	F
E	C
F	C

### DISTÂNCIAS

A	0
B	7
C	4
D	10
E	8
F	5

### PREDECESSORES

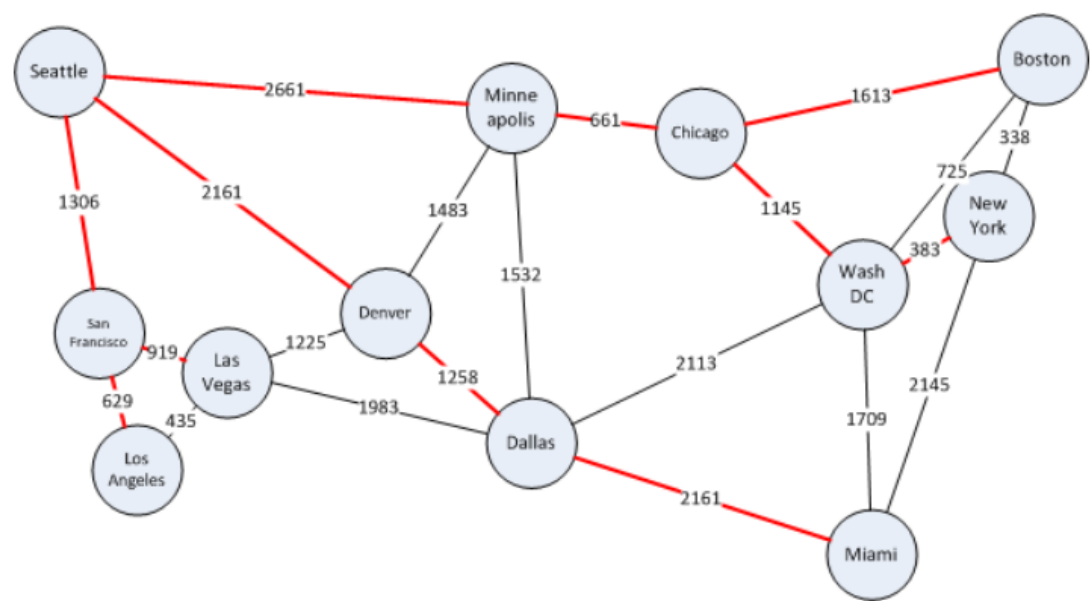
A	-1
B	F
C	A
D	B
E	C
F	C

MENOR CAMINHO:

A -> C -> F -> B -> D

$$4+1+2+2 = 9$$

Exercício 2:



DISTÂNCIAS

Seattle	0
San F	inf
Los A	inf
Las V	inf
Denver	inf
Minne	inf
Dallas	inf
Chicago	inf
WashDC	inf
NY	inf
Miami	inf
Boston	inf

PREDECESSORES

Seattle	-1
San F	-1
Los A	-1
Las V	-1
Denver	-1
Minne	-1
Dallas	-1
Chicago	-1
WashDC	-1
NY	-1
Miami	-1
Boston	-1

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	inf
Chicago	inf
WashDC	inf
NY	inf
Miami	inf
Boston	inf

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
+Dallas	-1
Chicago	-1
WashDC	-1
NY	-1
Miami	-1
Boston	-1

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	inf
Chicago	inf
WashDC	inf
NY	inf
Miami	inf
Boston	inf

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	-1
Chicago	-1
WashDC	-1
NY	-1
Miami	-1
Boston	-1

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	5789
Chicago	inf
WashDC	inf
NY	inf
Miami	inf
Boston	inf

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Denver
Chicago	-1
WashDC	-1
NY	-1
Miami	-1
Boston	-1

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	4208
Chicago	inf
WashDC	inf
NY	inf
Miami	inf
Boston	inf

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Las V
Chicago	-1
WashDC	-1
NY	-1
Miami	-1
Boston	-1

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	4193
Chicago	2292
WashDC	inf
NY	inf
Miami	inf
Boston	inf

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Minne
Chicago	Minne
WashDC	-1
NY	-1
Miami	-1
Boston	-1

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	4193
Chicago	2292
WashDC	4067
NY	inf
Miami	inf
Boston	3905

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Minne
Chicago	Minne
WashDC	Chicago
NY	-1
Miami	-1
Boston	Chicago

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	4193
Chicago	2292
WashDC	4067
NY	4243
Miami	inf
Boston	3905

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Minne
Chicago	Minne
WashDC	Chicago
NY	Boston
Miami	-1
Boston	Chicago

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	3419
Chicago	2292
WashDC	4067
NY	4243
Miami	5776
Boston	3905

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Denver
Chicago	Minne
WashDC	Chicago
NY	Boston
Miami	WashDC
Boston	Chicago

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	4193
Chicago	2292
WashDC	4067
NY	4243
Miami	5776
Boston	3905

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Minne
Chicago	Minne
WashDC	Chicago
NY	Boston
Miami	WashDC
Boston	Chicago

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	3419
Chicago	2292
WashDC	4067
NY	4243
Miami	5776
Boston	3905

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Denver
Chicago	Minne
WashDC	Chicago
NY	Boston
Miami	WashDC
Boston	Chicago



## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	3419
Chicago	2292
WashDC	4067
NY	4243
Miami	5776
Boston	3905

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Denver
Chicago	Minne
WashDC	Chicago
NY	Boston
Miami	WashDC
Boston	Chicago

## DISTÂNCIAS

Seattle	0
San F	1306
Los A	1935
Las V	2225
Denver	2161
Minne	2661
Dallas	3419
Chicago	2292
WashDC	4067
NY	4243
Miami	5776
Boston	3905

## PREDECESSORES

Seattle	-1
San F	Seattle
Los A	San F
Las V	San F
Denver	Seattle
Minne	Seattle
Dallas	Denver
Chicago	Minne
WashDC	Chicago
NY	Boston
Miami	WashDC
Boston	Chicago

Seattle até Nova York = 4243 KM