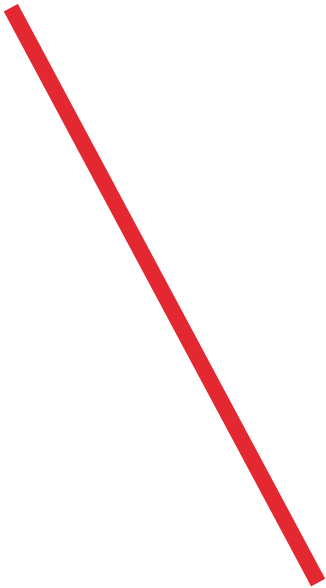
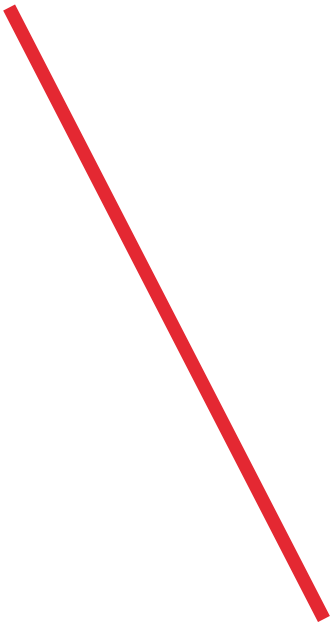


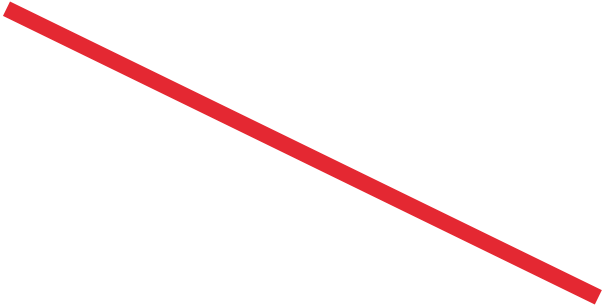


KRUSKAL-KRAMER



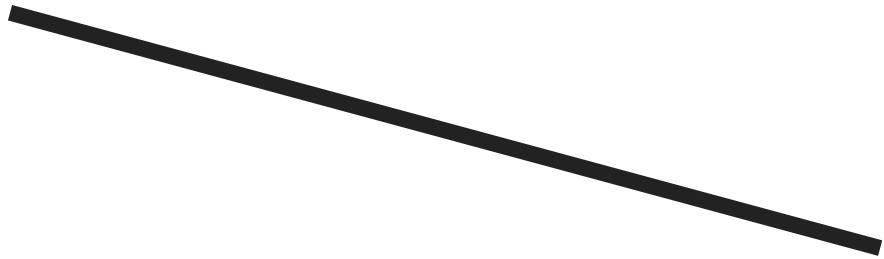




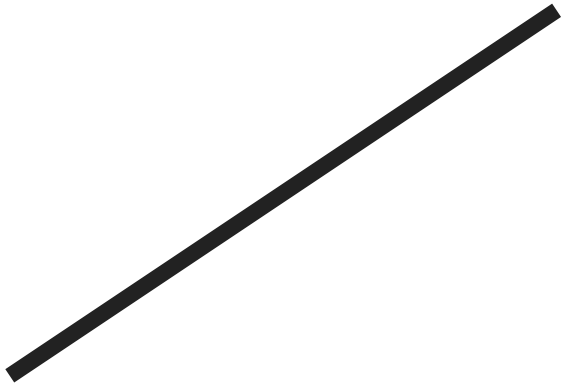


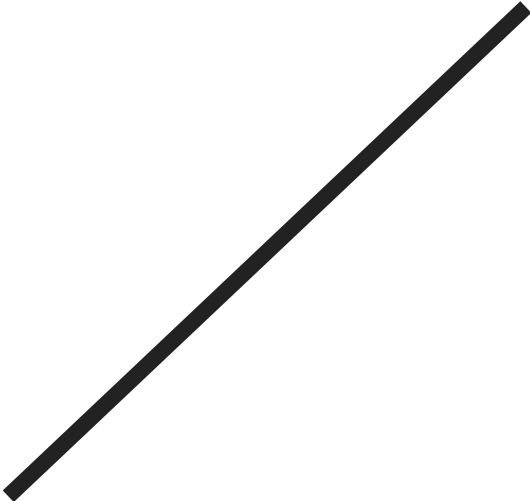


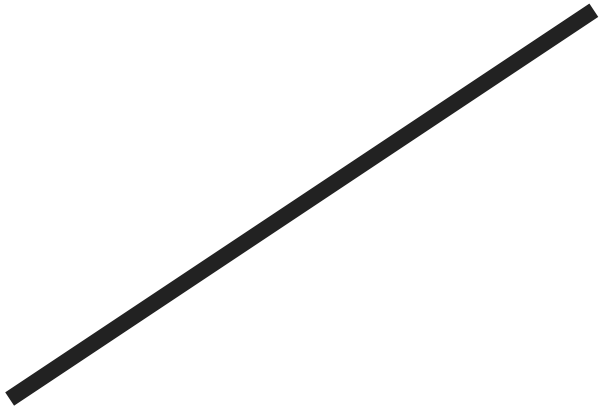
















A



A large blue circle with a white letter 'C' in the center.

C

A large blue circle with a white capital letter 'F' centered inside it.

F



B

11

4

5

7

5



9

9

12

8

20

A large blue circle with a white capital letter 'D' in the center.

D

A solid blue circle with a white capital letter 'E' centered inside it.

E

A large orange circle with a white capital letter 'A' in the center.

A



A large orange circle with a white capital letter 'B' in the center.

B

A large, solid orange circle occupies the center of the image. Inside this circle, the letter 'C' is written in a white, serif font. The 'C' is positioned in the upper-middle part of the circle, with its top slightly below the circle's top edge and its bottom above the circle's bottom edge. The letter is centered horizontally within the circle.

C

A large orange circle with a white capital letter 'D' in the center.

D

A large orange circle with a white capital letter 'E' in the center.

E

A large orange circle with a white capital letter 'F' centered inside it.

F

find(A) =

A large orange circle with a white capital letter 'A' in the center.

A

find('c') =>



A large orange circle with a white letter 'C' in the center.

C

UNION

find a "B" = >

A large orange circle with a white capital letter 'B' in the center.

B

find a >

A large orange circle with a white capital letter 'D' in the center.

D

find( "E" ) =>

A large orange circle with a white capital letter 'E' centered inside it.

E



UNION

find('c') =>

A large orange circle with a white capital letter 'A' in the center.

A

find(“F”) =>

A large orange circle with a white capital letter 'F' centered inside it.

F

UNION

find('c') =>

A



find a >

A large orange circle with a white capital letter 'D' in the center.

D

find(“F”) =>

A large orange circle with a white capital letter 'A' in the center.

A

find( "E" ) =>

find(A) = >

find a >

find('c') =>



find a "B" = >

A large orange circle with a white capital letter 'A' in the center.

A

A large orange circle with a white capital letter 'C' in the center.

C

A large orange circle with a white capital letter 'D' in the center.

D

A large, solid orange circle is centered on a white background. Inside the circle, the letter 'E' is written in a bold, white, sans-serif font. The letter is positioned in the center of the circle, both horizontally and vertically.

E

A large orange circle with a white letter 'F' in the center.

F



A large orange circle with a white capital letter 'A' in the center.

A



A large orange circle with a white capital letter 'B' in the center.

B

A large, solid orange circle is centered on a white background. Inside the circle, the letter 'C' is written in a white, bold, sans-serif font. The 'C' is positioned in the upper-middle part of the circle, with its top and bottom curves aligned with the circle's edge.

C

A large orange circle with a white capital letter 'D' in the center.

D

A large orange circle with a white capital letter 'E' centered inside it.

E

A large orange circle with a white capital letter 'F' centered inside it.

F

A large orange circle with a white capital letter 'B' in the center.

B







A large orange circle with a white capital letter 'A' in the center.

A

A large orange circle with a white capital letter 'B' in the center.

B

A large orange circle with a white letter 'C' in the center.

C

A large orange circle with a white capital letter 'D' in the center.

D

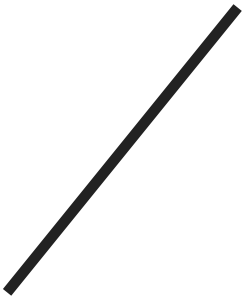
A large, solid orange circle occupies the center of the image. Inside the circle, the letter 'E' is written in a white, bold, sans-serif font. The letter is positioned in the upper-middle part of the circle.

E

A large orange circle with a white capital letter 'F' centered inside it.

F









A large orange circle with a white capital letter 'A' in the center.

A

A large orange circle with a white capital letter 'B' in the center.

B

A large orange circle with a white lowercase letter 'c' in the center.

c

A large orange circle with a white capital letter 'D' in the center.

D

A large orange circle with a white capital letter 'E' in the center.

E

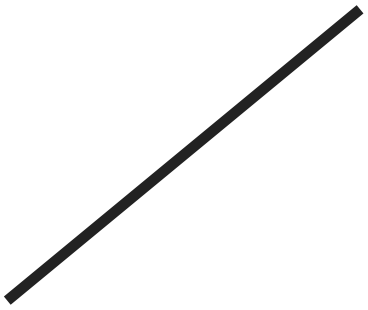
A large orange circle with a white capital letter 'F' centered inside it.

F











A large orange circle with a white capital letter 'A' in the center.

A

A large orange circle with a white capital letter 'B' in the center.

B

A large orange circle with a white capital letter 'C' in the center.

C

A large orange circle with a white capital letter 'D' in the center.

D

A large orange circle with a white capital letter 'E' centered inside it.

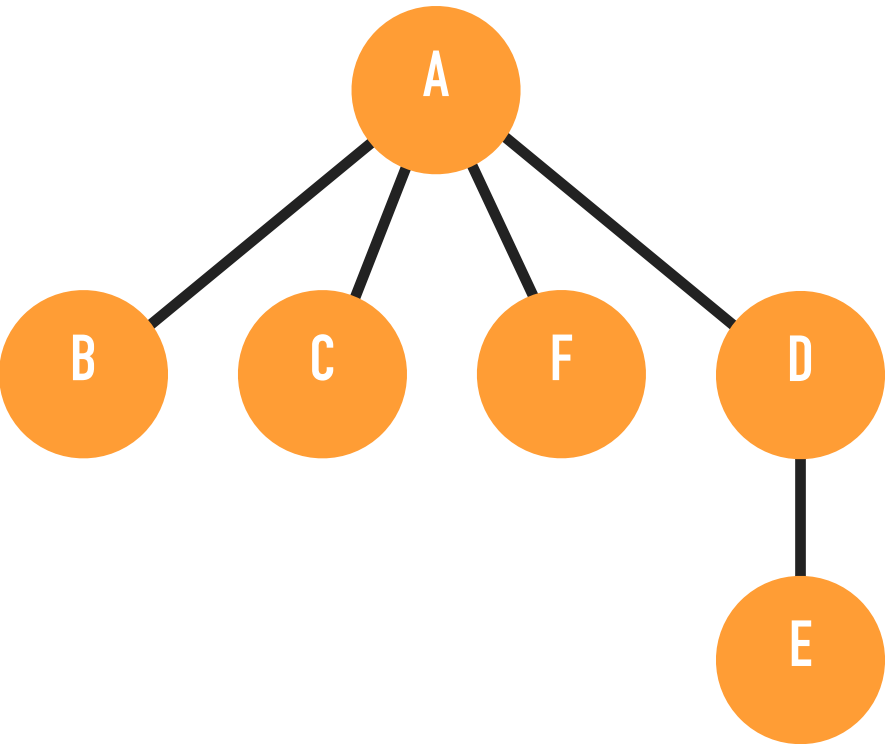
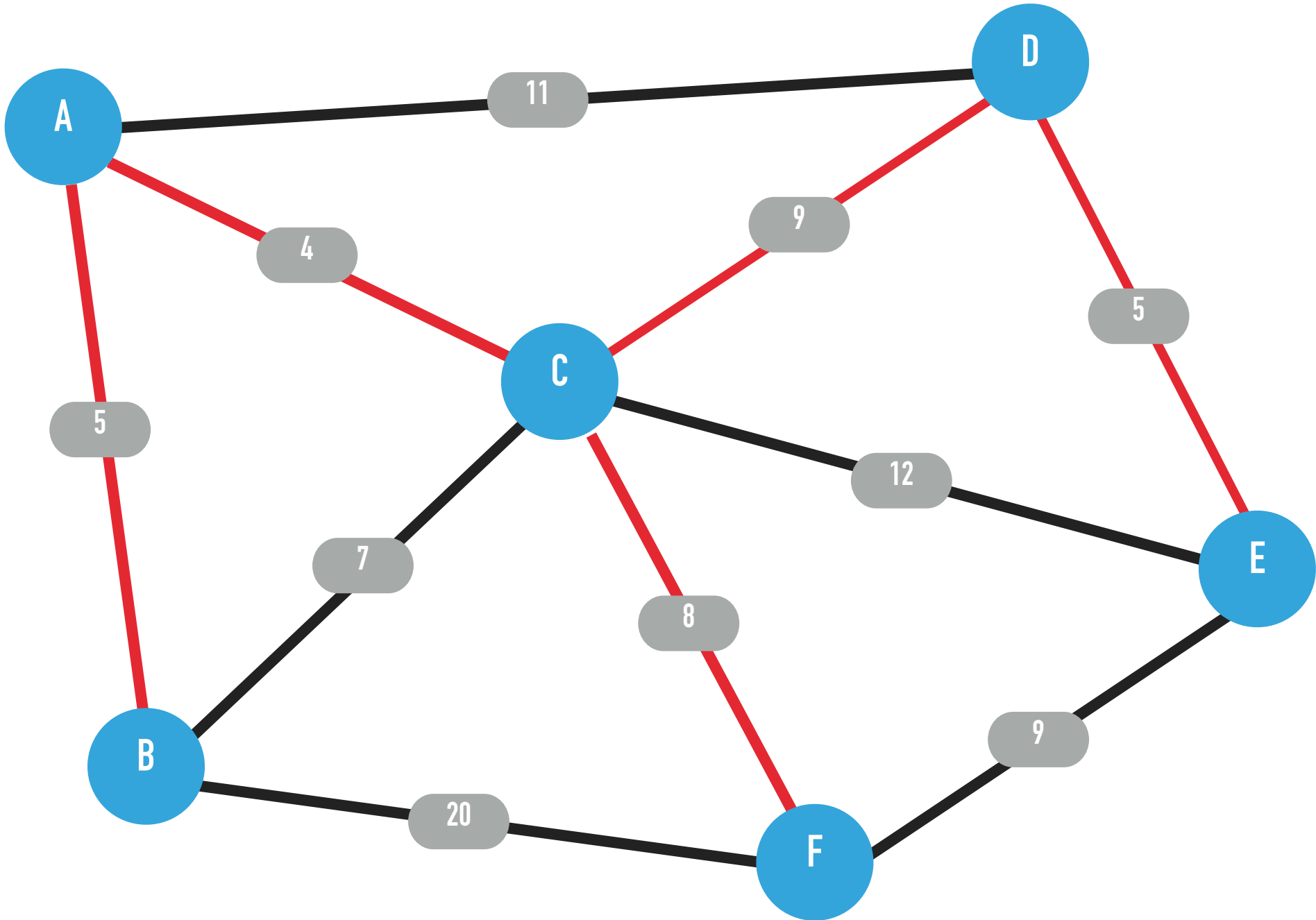
E



A large orange circle with a white capital letter 'F' centered inside it.

F

# KRUSKAL - EXEMPLE AVEC ARBRE



find("B") => A

find("F") => A

# KRUSKAL - EXEMPLE AVEC TABLEAU

Key	A	B	C	D	E	F
Value	1	2	3	4	5	6

-1	-1	-1	-1	-1	-1
1	2	3	4	5	6

