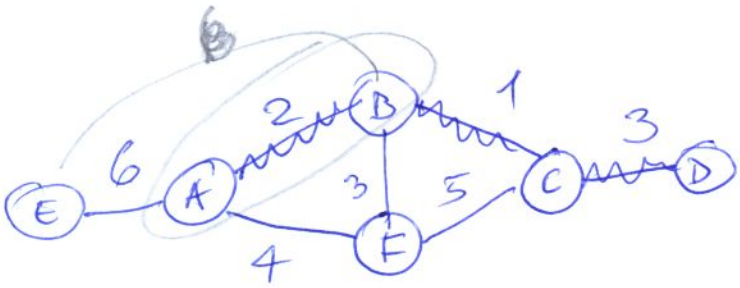
Sejbein su Grafo G

$G = \{(A,B,2), (A,F,4), (A,E,6), (B,C,1) (B,F,3) (C,D,3) (C,F,5)\}$



G

$n = 6$
$n' = 3$

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

MST
↑
{A,B}

Q {A, B, 2, A, B} Minheap
{A, E, 6, A, E}
{A, F, 4, A, F}
{B, C, 1, B, C} ← {B, E, 6, A, E}
{B, F, 3, B, F} ← {B, F, 4, A, F}
{C, D, 3, C, D} ← {C, E, 6, A E}
{C F, 5, C, F} ← (C,F, 4, A,F)
(D, E, 6, A E) (D, F, 4, A F)

current = 0

- $(u, v, c, u_0, v_0) = (A, B, 2, A, B)$
  $A \neq 0 \quad 1 \neq 6 - 3 + 1$
  return A, B
  (current, relinkTo) = (A, B)

(A,B) → MST

- (A, E, 6, A, E)
  current = A
  E ≠ relinkTo
  (... B, E, 6, AE) ⇒ Q el porto di AE

- (A, F, 4, A, F)

  current = 4

  F ≠ relinkTO

  (B, F, 4, A, F) ⇒ Q

- (B, C, 1, B, C)

  B ≠ current

  ~~2~~ ≠ 6 - 3 + 1

  return (B, C) (B, C) → MST

  (current, relinkTo) = (B, C)

- (B, E, 6, A, E)

  B = current

  v ≠ C

  (C, E, 6, A, E) ⇒ Q

- (B, F, 3, B, F)

  B = current

  v ≠ C

  (C, F, 3, ~~A~~ B, F) ⇒ Q

- (B, F, 4, A, F)

  B = current v ≠ C

  (~~C~~, F, 4, A, F)

- (C, D, ~~3~~, C, D)

  ~~B ≠ 4~~ current = B ≠ C 3 ≠ 4

  output (C, D) CD ⇒ MST

  (current, relinkTO) = (C, ~~D~~)

- (C, E, 6, A, E)

  C = current

  ~~(D, E, 6, A, E)~~ ⇒ Q

- (C, F, 4, A, F)

  c = current

  (D, F, 4, A, F) ⇒ Q

- (C, F, 5, C, F)

  (D, F, 5, C F) ⇒ Q

- (D, E, 6, A, E)

  current ≠ u C ≠ D

  4 = 4 break loop

rimane

ole gestire
con sen-extend

Kruskal