

Iteration #0

- ① init soln and temp
- ② $T > 0$? yes
- ③ Make rand change
 - remove P_6
 - $S' = P_1, P_2, P_3, P_4, P_5$

	P1	P2	P3	P4	P5	P6
m0	x					x
m1	x	x				
m2					x	x
m5		x	x			
m6				x	x	
m7			x	x		

~~$S = P_1, P_2, P_3, P_4, P_5, P_6$~~
 $T = 100$
 $S = P_1, P_2, P_3, P_4, P_5$

- ④ Cost diff
 - $C = 6 - 5$
 - $= 1$
- ⑤ $C > 0$? yes.
keep better soln

- ⑥ update T
 - $T = T - 25$
 - $= 100 - 25$
 - $= 75$

iteration #1

- ② $T > 0$? yes.
- ③ Make rand change
 - remove P_2
 - $S' = P_1, P_3, P_4, P_5$

	P1	P2	P3	P4	P5	P6
m0	x					x
m1	x	x				
m2					x	x
m5		x	x			
m6				x	x	
m7			x	x		

~~$S = P_1, P_2, P_3, P_4, P_5$~~
 $T = 75$
 $S = P_1, P_3, P_4, P_5$

- ④ Cost diff
 - $C = 5 - 4$
 - $= 1$
- correct? yes.
- ⑤ $C > 0$? yes
keep better soln

- ⑥ update T
 - $T = 75 - 25$
 - $= 50$

iteration #2

② $T > 0$? yes

③ Make rand change

- add P_6

$S' = P_1, P_3, P_4, P_5, P_6$

	P1	P2	P3	P4	P5	P6
m0	x					x
m1	x	x				
m2					x	x
m5		x	x			
m6				x	x	
m7			x	x		

~~$S = P_1, P_3, P_4, P_5$~~

$T = 50$

$S' = P_1, P_3, P_4, P_5, P_6$

④ Cost diff

$C = 4 - 5$
 $= -1$

③ $C > 0$? no

randomly accept worse soln

$r = [0, \dots, 1] = 0.625$

$m = \frac{1}{e^{10/11}} = \frac{1}{e^{1-1/101}} = 0.980$

$r < m$? (0.625 < 0.980?) yes.

keep soln

⑥ update T

$T = 50 - 25$
 $= 25$

iteration #3

② $T > 0$? yes

③ make rand change

- remove P_1

$S' = P_3, P_4, P_5, P_6$

	P1	P2	P3	P4	P5	P6
m0	x					x
m1	x	x				
m2					x	x
m5		x	x			
m6				x	x	
m7			x	x		

$S = P_1, P_3, P_4, P_5, P_6$

$T = 25$

④ Cost diff

$C = 5 - 4$
 $= 1$

correct? NO

⑤ $C > 0$? NO

⑥ update T

$T = 25 - 25$
 $= 0$

iteration #4

② $T > 0$? NO.

Done!

$S = P_1, P_3, P_4, P_5, P_6$