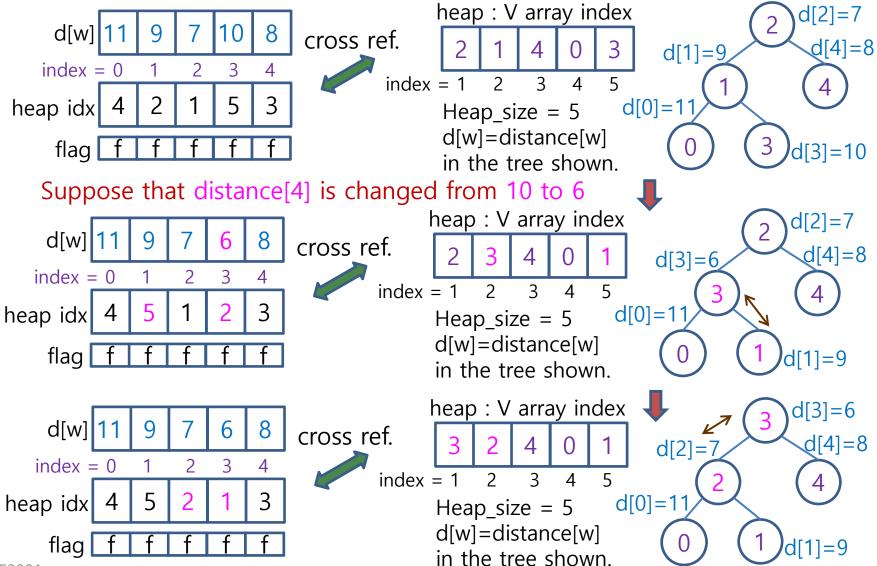


- Another Method for Heap Operations in Dijkstra's Alg.
 - \bullet We still needs the cross references(let d[w] = distance[w]).



CSE3081



◆ Delete Min Example

cross ref.

index = 1

heap: V array index

3 2 4 0 1

Heap_size = 5 d[0]=11d[w]=distance[w]

in the tree shown.

heap: V array index

d[2]=7 d[4]=8 d[4]=8 d[4]=8

d[w] 11 9 7 6 8

 $index = 0 \quad 1 \quad 2 \quad 3 \quad 4$

heap idx 4 1 2 5 3

flag f f f T f

cross ref.



'' 1 2 2

index = 1 2 3 4 5

Heap_size = 4 d[w]=distance[w] in the tree shown. d[2] = 7 d[4] = 8

d[0]=110
3 d[3]=6

d[w] 11 9 7 6 8 index = 0 1 2 3 4

heap idx 4 2 1 5 3

flag f f f T f

cross ref.

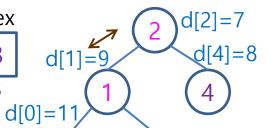


heap: V array index



Heap_size = 4 d[w]=distance[w]

in the tree shown.



3 d[3]=6