

**In DecreaseKey(H, x, k):**

DecreaseKey(H, x, k) – If the node of H with key `x' is at least `k', then decreases the value of node with key `x' by `k'. If x is not present in Heap H1, then print -1.

**In input format:**

p 1 - prints the root list of binomial heap H1.

p 2 - prints the root list of binomial heap H2.

u - combine two heaps (H1 and H2) and print the root list.

**Input:**

i 10  
i 20  
i 30  
i 40  
i 50  
p 1  
m  
x  
p 1  
r 50 46  
p 1  
r 70 5  
j 60  
j 70  
j 80  
p 2  
u  
e

**Output:**

50 10  
10  
10  
20  
46  
20  
-1  
80 60  
80 60 20