

1) ~~a: 0.10~~

~~b: 0.25~~

~~c: 0.05~~

~~d: 0.15~~

~~e: 0.30~~

~~f: 0.09~~

~~g: 0.08~~

~~ef: 0.12~~

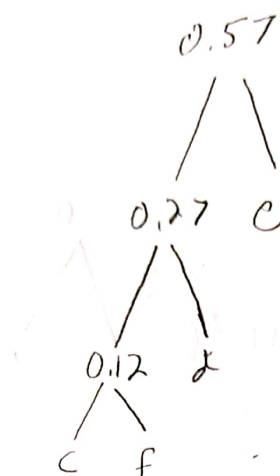
~~ag: 0.18~~

~~d-ef: 0.27~~

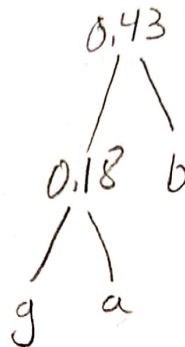
~~agb: 0.43~~

~~dce: 0.57~~

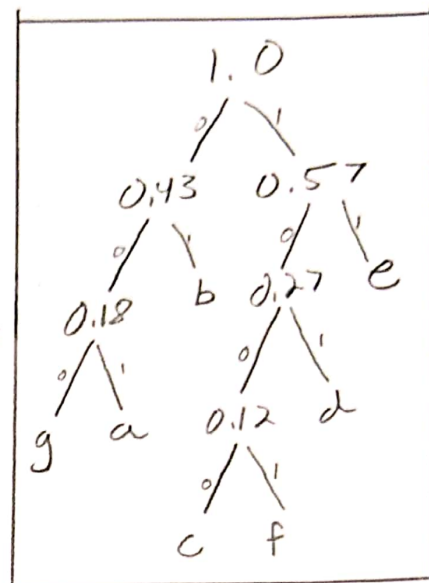
agb-dce, 1



+



=



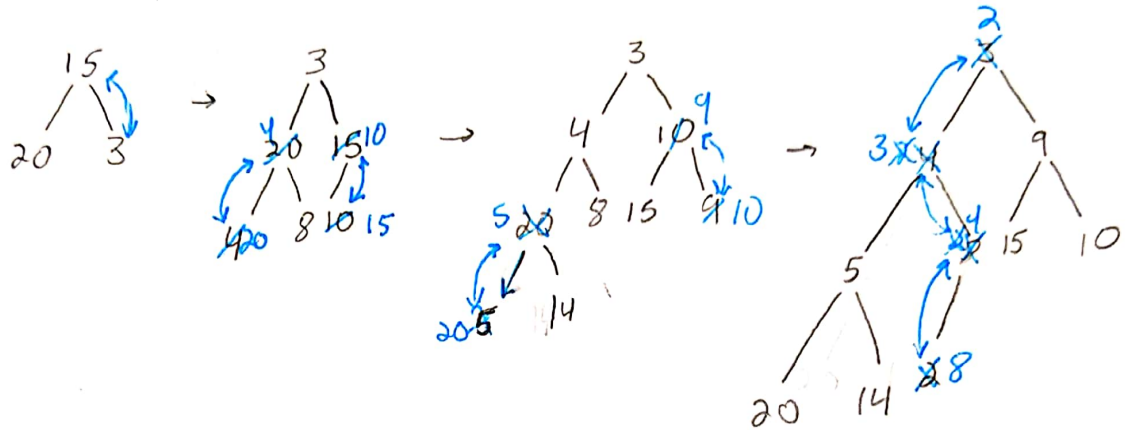
final codes

a = 001	e = 11
b = 01	f = 1001
c = 1000	g = 000
d = 101	

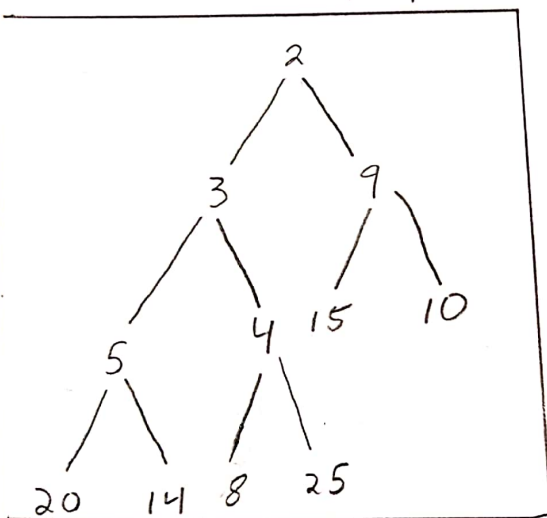
2)

items: 15, 20, 3, 4, 8, 10, 9, 5, 14, 2, 25

min heap



final min heap



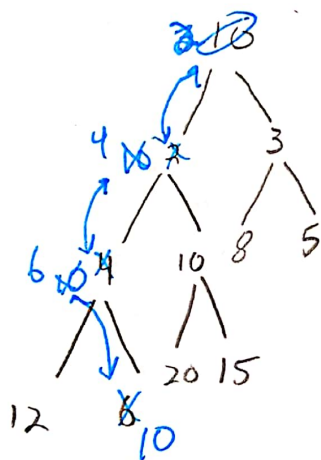
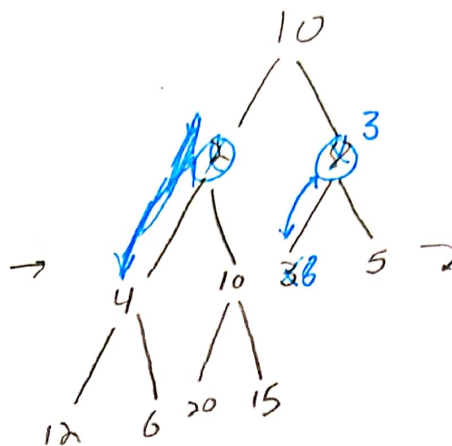
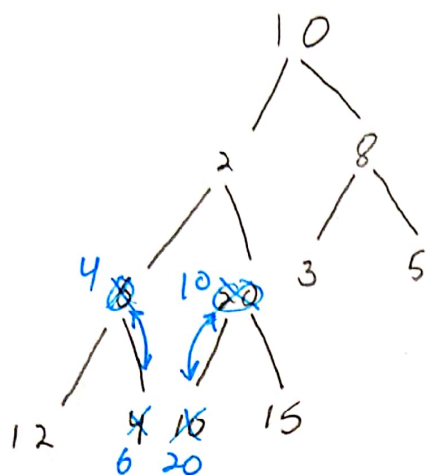
3:

Items: 10, 2, 8, 6, 20, 3, 5, 12, 4, 10, 15

step 1: make heap

step 2: start fixing at size/2

$$11/2 = 5$$



final minheap

