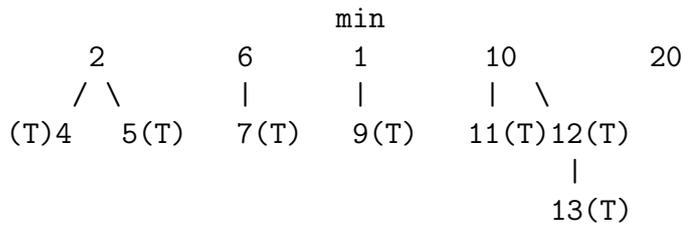
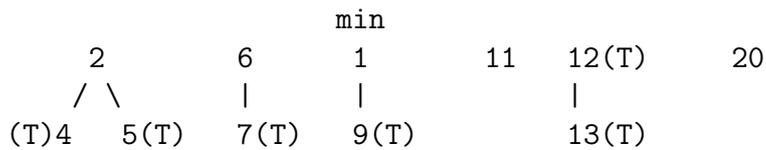


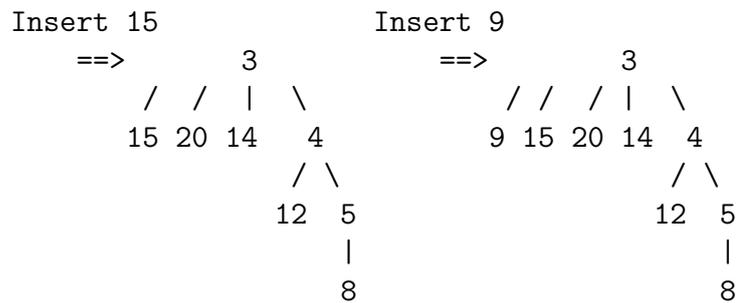
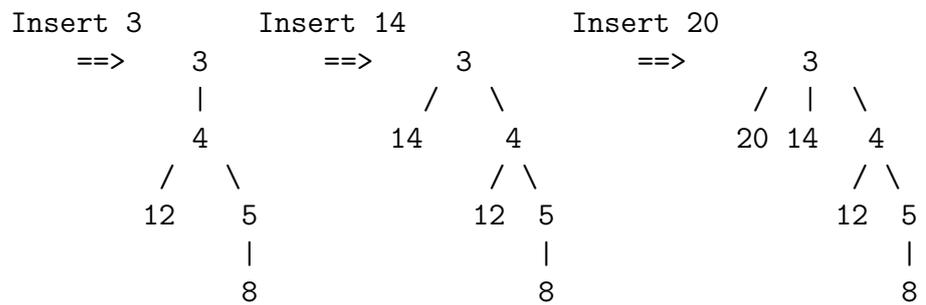
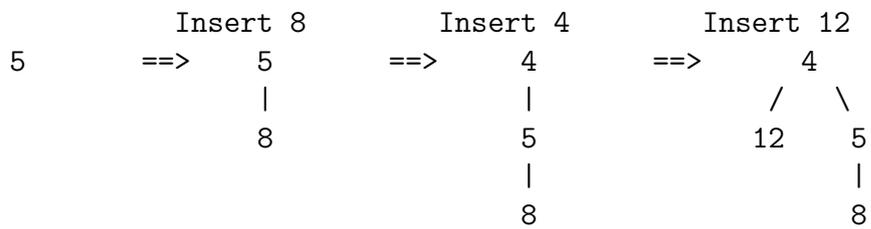
1. (a)



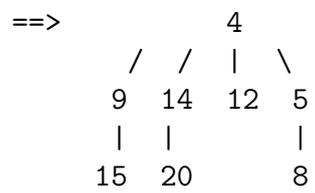
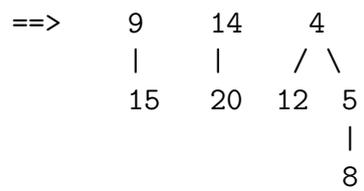
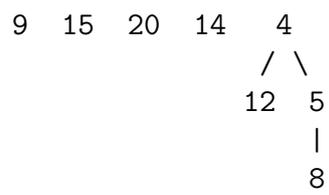
(b) The below solution is right answer for (b). (5:full points answer) delete operation didn't join(or combine) steps except *Deletemin* operation)



2. (a)



(b) two-pass meld after remove min



3. rotations : RR -> LL -> RL -> LR

