

Initial state

MST

① ② ③

⑧

⑦

⑦

⑥

⑤

disjoint set tree

⑦ ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

Step 1.

MST

①

②

③

⑦

⑧

④

⑦ — 2 — ⑥

⑤

disjoint set tree

⑦ ① ② ③ ④ ⑤ ⑥ ⑧

⑦ — 1 — ⑥

Step 2.

MST

①

②

③

⑦

⑧

④

⑦ — 2 — ⑥

⑤

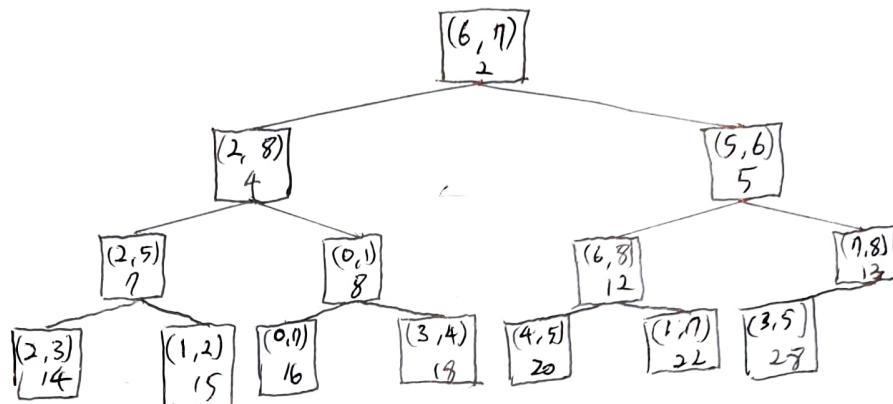
disjoint set tree

⑦ ① ② ③ ④ ⑤ ⑥

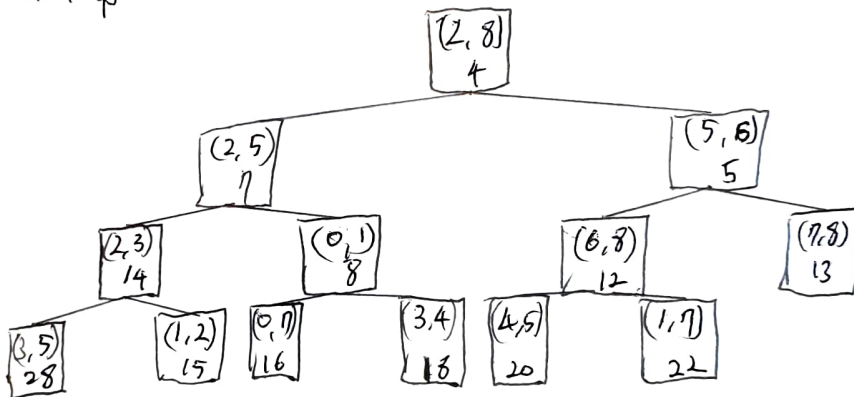
⑦ — 1 — ⑥

⑧ — 1 — ⑤

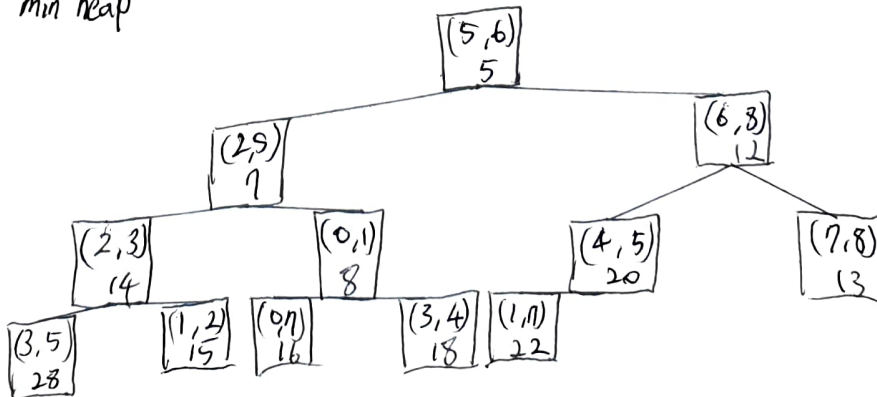
min heap



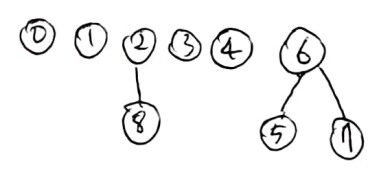
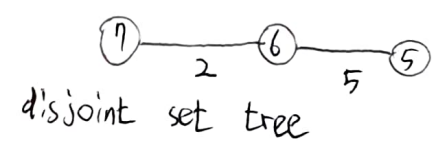
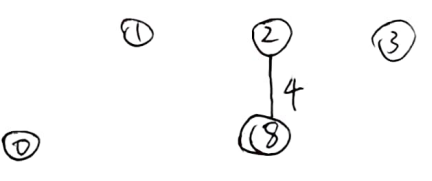
min heap



min heap

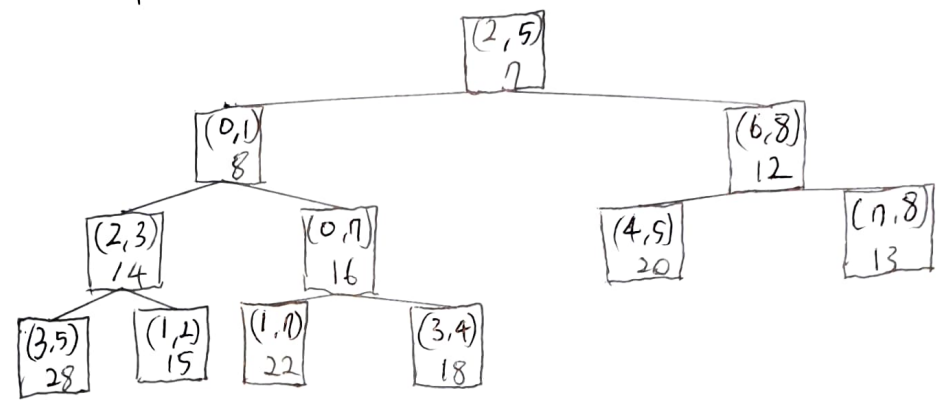


Step 3, MST

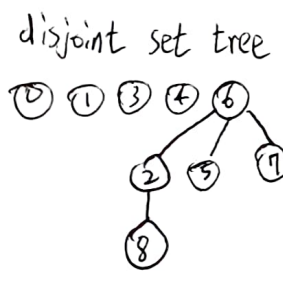
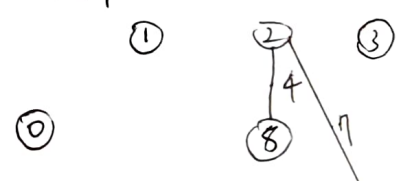


min heap

④

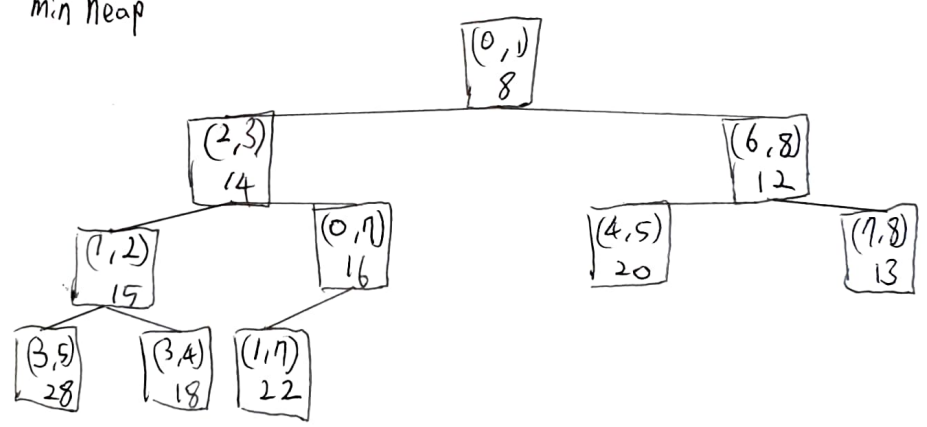


Step 4, MST

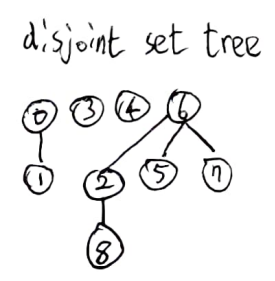
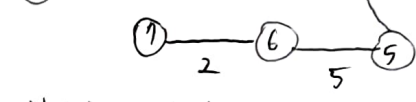
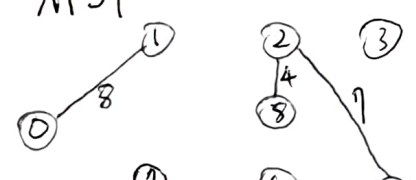


min heap

④

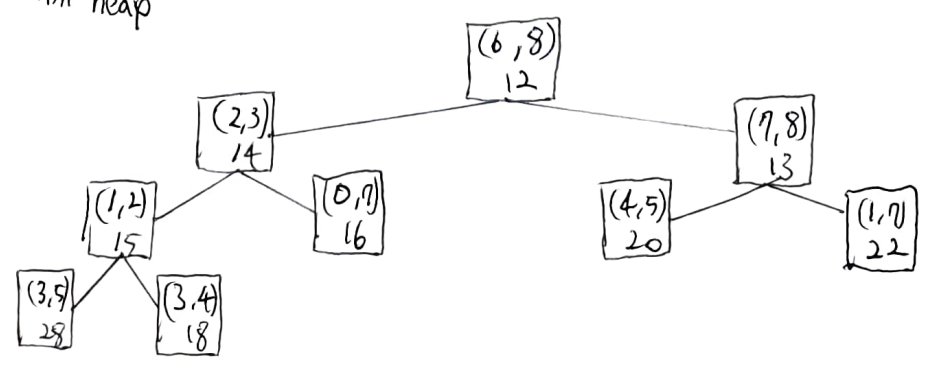


Step 5, MST



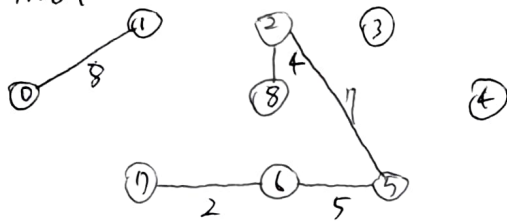
min heap

④

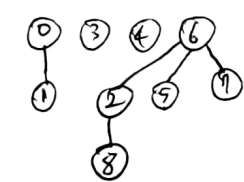


Step 6.

MST

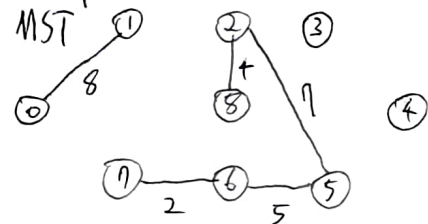


disjoint set tree

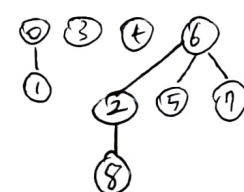


Step 7.

MST

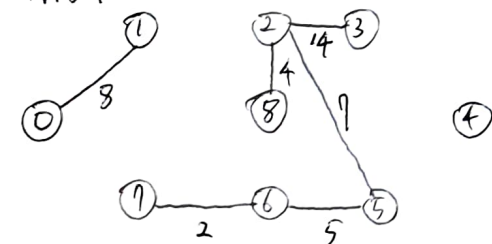


disjoint set tree

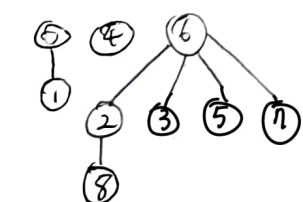


Step 8.

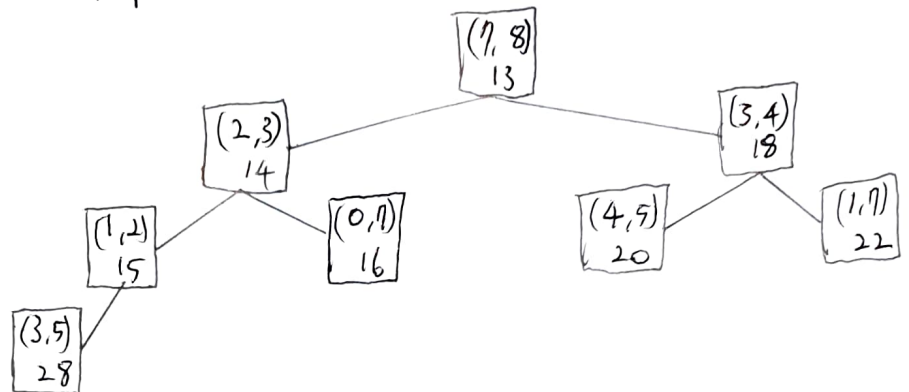
MST



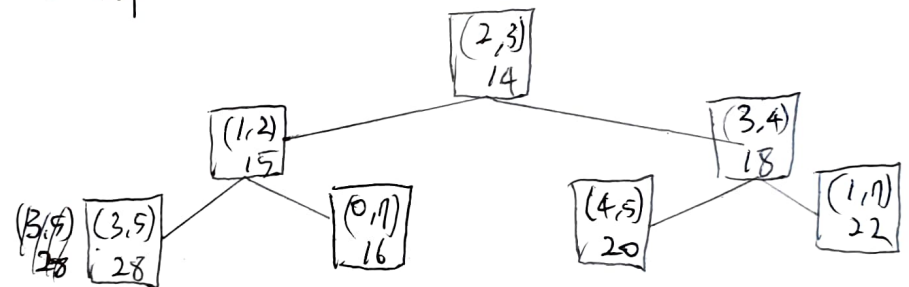
disjoint set tree



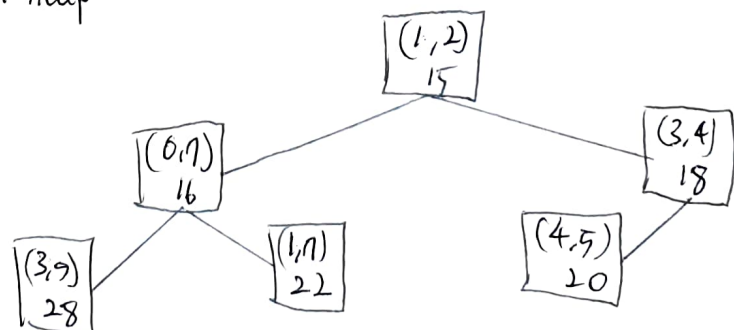
min heap



min heap

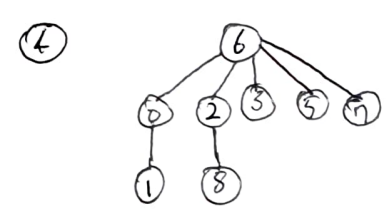
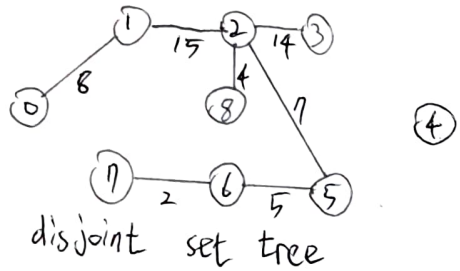


min heap

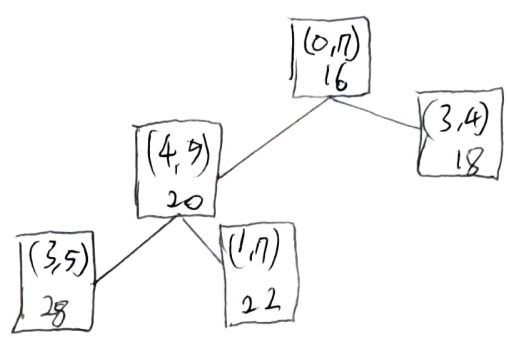


step 9

MST

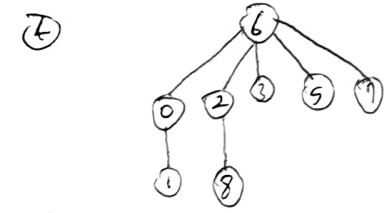
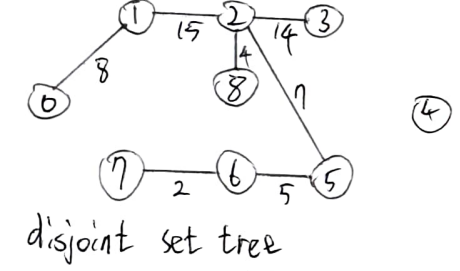


min heap

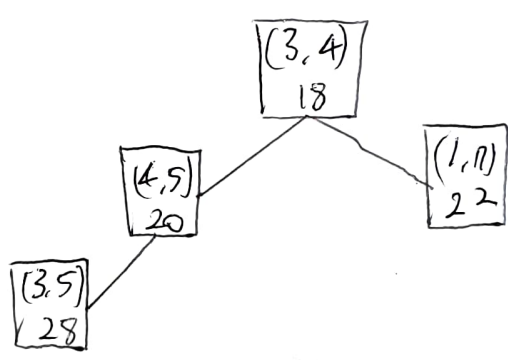


step 10

MST

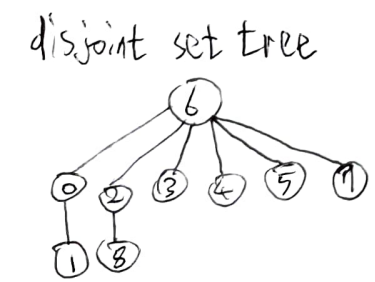
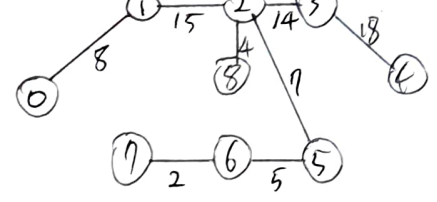


min heap



step 11

MST



min heap

