

Exercises 7

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1.2

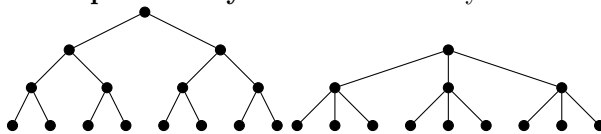
- a) a;
- b) a, b, c, d, f, h, j, q, t;
- c) e, g, i, k, l, m, n, o, p, r, s, u;
- d) q, r;
- e) c;
- f) p;
- g) f, b, a;
- h) e, f, l, m, n;

1.10

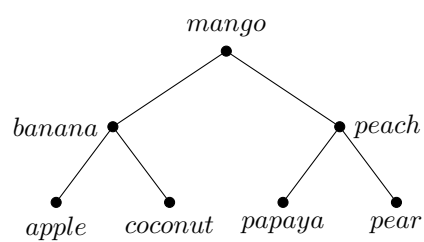
2000 edges.

1.14

A **complete m -ary tree** is a full m -ary tree in which every leaf is at the same level.



2.1



2.4

We need to weigh twice.

First, choose any two coin, weigh them.

Second, if two coin are as heavy, that means the fake coin is among the two remaining coins, weigh again.

If two coin are not the same weight, choose any one of them and any one of remaining, weigh. If they are the same, the remaining of first step are fake. Otherwise, that this time is fake.