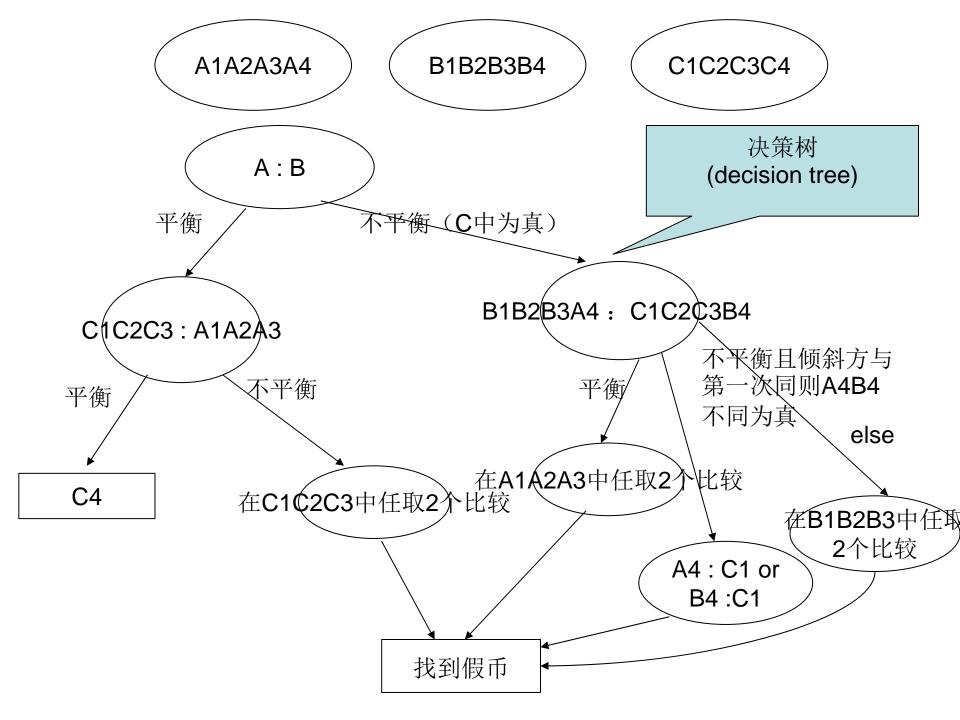
作业反馈

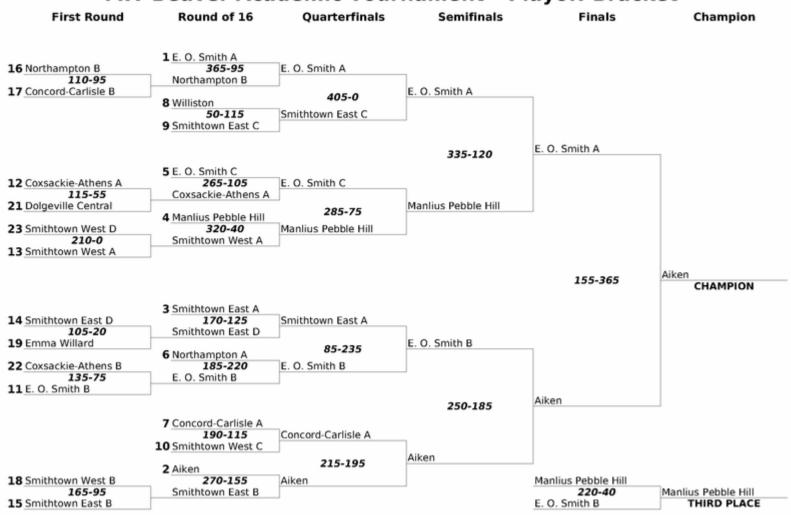
12个硬币,其中有一个伪币,如何使用一个天平(无刻度)用最少的称量次数找出伪币。



• N组参加single game elimination tournament, 共有多少比赛?

 A single-elimination tournament, also called an Olympic system tournament, a knockout, cup or sudden death tournament, is a type of elimination tournament where the loser of each match or bracket is immediately eliminated from winning the championship or first prize in the event.

MIT Beaver Academic Tournament - Playoff Bracket



- $Pr(1^{st} try to find) = 1/7;$
- $Pr(3^{rd} try to find) = 6/7 * 5/6 * 1/5 = 1/7;$

- 为使用字母表移位加密的一段文字解密
- RDSXCVIWTDGNXHUJCLTLXAAATPGCBDGT PQDJIXIAPITG
- AAA ? AA A→ a, b, c, ...
- II,I (will let)
- Oo,o (zoo operate)
- Ss,s (Miss, steve)
- tt, t (Matt, talks)

- Anagrams (移位构词)
- NOVA CURVE; (9, Evansville, Gloversville, Vancouver)
- NINE SLAP NAVY; (12, Pennsylvania)
- I HELD A HIP PAL; (12, Phillipsburg, Philadelphia)
- DIRTY ROOM; (9, domitory)

- 正读和反读一样
- 旋转180度后一样 (N, I, O, H, S, X, Z)

• NOON, SOS, SIS (口语,妹妹), OHO (惊叹词)

Picture proofs

- Pythagoras' theorem (勾股定理)
- 示意图对于证明有帮助; 但是示意图也会误导。

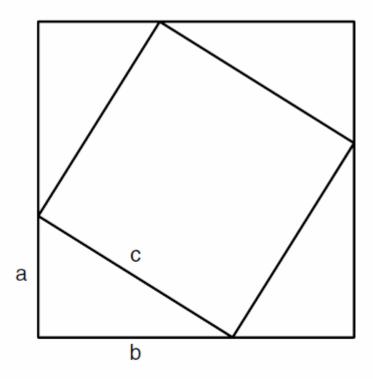


FIGURE 27.1 $a^2 + b^2 = c^2$

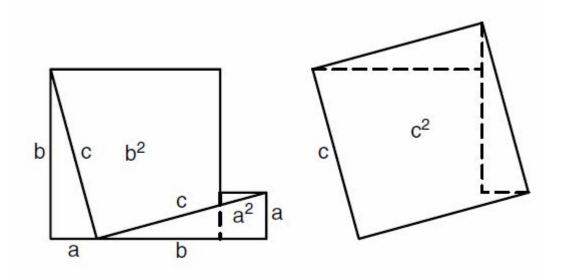


FIGURE 27.2 $a^2 + b^2 = c^2$

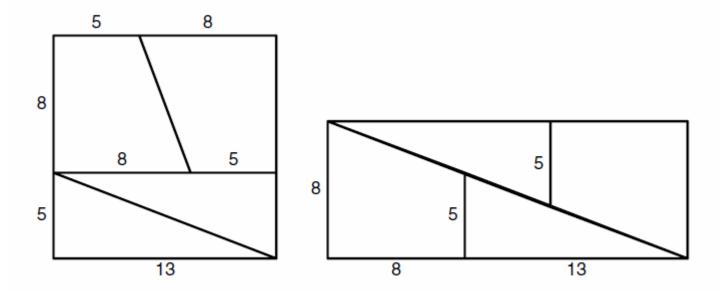


FIGURE 27.3 $169 = 13^2 = (8 + 13) \cdot 8 = 168$