CSC 2259 3/03/20 (pub test material)

min #(big, sour, and red fruits) = 0

$b = \#(\text{big}) = 7$
$s = \#(\text{sour}) = 6$
$r = \#(\text{red}) = 4$
$f = \#(\text{fruit}) = ...$

9 ↑ cannot be > 4

17? yes
12? yes 9? yes
7? no 8? no

f = sum of the 2 smallest items from b, s, r
= min(b+s, b+r, s+r)

↳ ensures min #(–, –, –) = 0
but not more restrictive

$2f \geq b+s+r$ (or ≤ idk) to make #(b, s, r) = 0
$2 \times 8 = 16 < 17$

C[m] = C(n, m) for fixed n

C[m] = C[m−1] / m * (n − m+1)
m at least 2
C(n,1) must not be divisible by 2
(n = 3)

$H \setminus W = H - W$
$H \setminus W \cup W \setminus H = (W \cup H) \setminus (W \cap H)$
$H \setminus W \cup W \setminus H = \emptyset$ iff $H = W$

symmetric difference
$H \triangle W = W \triangle H = (H \setminus W) \cup (W \setminus H)$

|H Δ W| = |H ∪ W| bigger usually

they equal when they disjoint

H Δ W ⊆ H ∪ W

intermission, now he talks about
(straight lines 2 pts)

on test ? "3 by 4"

H : [0 0 1 0]
W : [0 0 0 0] } takes 3 iterations

H ⊆ W

in English:

give you H, but not W   testing H = W

"H consists of W" ↓ wrong

(W's) = 2^4 = 16
(W's taking 1 iteration) = 0 if answer is yes
if answer is no
[1 x x x] = 2^3 H ≠ W
(W's 2) = 0
= 2^2

I want everything I have.

if (x < y) max = y
max = y } doesn't work

Max = x
if (x < y) max = y } yes

max = x,
if (max < y) max = y, } yes ✓ best of the three

more efficient
{ if (x < y) max = y,
else max = x, } best of all