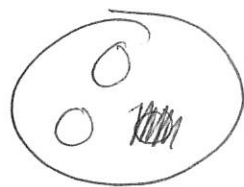


7-Step Process w/ Pancake Problem in more detail

Step 1

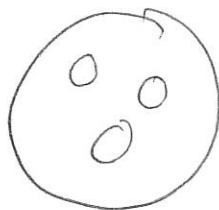
Work examples by hand

Pansize = 3 numpancakes = 2



→ 10 min

Pansize = 3 numpancakes = 6



→ 10 min

> 20 min



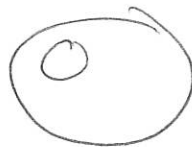
→ 10 min

Pansize = 3 numpancakes = 4



→ 10 min

> 20



→ 10 min

Step 2 Write down what you did
in words

If pansize is 3 and numpancakes
is 2, then 10 minutes

If pansize is 3 and numpancakes
is 6, then 20 minutes

If pansize is 3 and numpancakes
is 4, then 20 minutes

Step 3 Generalize

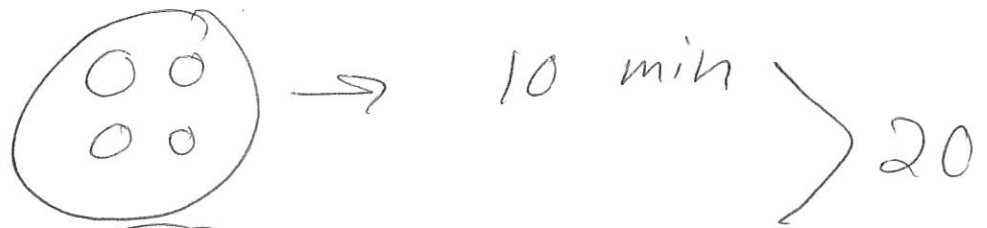
If $\text{numpancakes} \leq \text{pansize}$
answer is 10

If $\text{numpancakes} / \text{pansize}$ has
no remainder (which means
evenly divides)
answer is $\text{numpancakes} / \text{pansize} * 10$

If $\text{numpancakes} / \text{pansize}$ has a
remainder
answer is $\text{numpancakes} / \text{pansize} * 10 + 10$

Step 4

Work another example
pansize 4, 8 pancakes



check

$$8/4 = 2 \times 10 = 20 \checkmark$$

pansize 4, 6 pancakes



check

$$6/4 = 1$$
$$1 \times 10 + 10 = 20 \checkmark$$

Step 5

code ~~test~~

Step 6 test

Step 7 debug

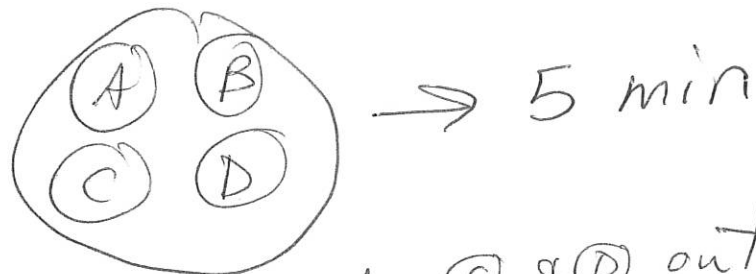
Step 7 Debug

Run APT -

pansize = 4, 6 pancakes
answer is 15!
Oh No!

Debug

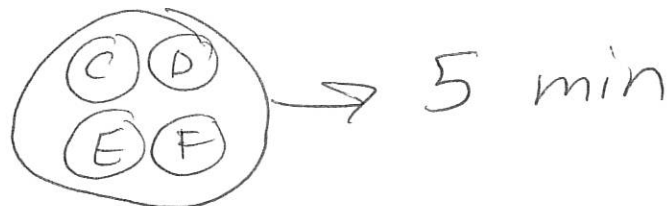
Pancakes (A) (B) (C) (D) (E) (F)



take (C) & (D) out



(A) (B) DONE
(C) (D) (E) (F) → need 5 more min



total
15 min

If $(\text{numpancakes} \bmod \text{pansize}) / \text{pansize}$
is less than or equal to 0.5
then answer is ?
you finish