Warm Up (Puzzle)

Fruit Market   Labels are incorrect. /shuffles.

Oranges   Apples   Apples & oranges
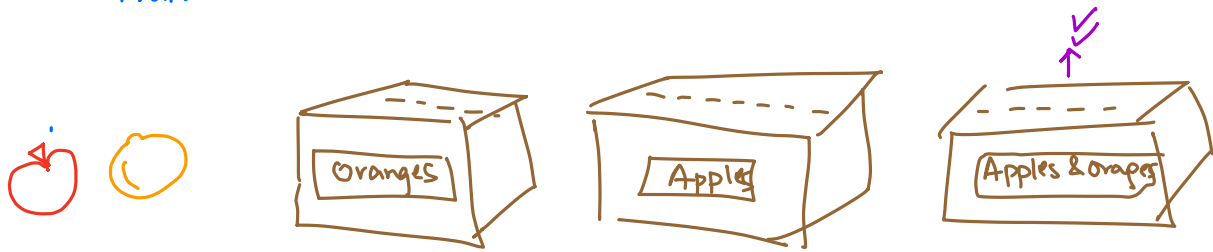
Draw one fruit out of any 1 box. Tell /Find
the correct fruit in each box.
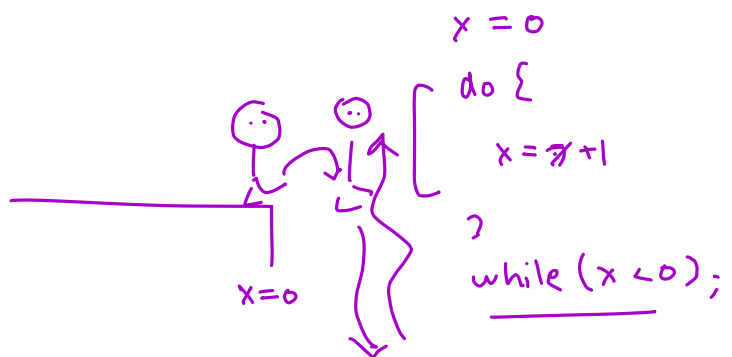   What box you will pick & why.?

Soln

Possibly

O → ~~Apples~~   Apples + Oranges

A → Oranges   ~~Apples + Orange~~

AO → Apples ✓   Oranges
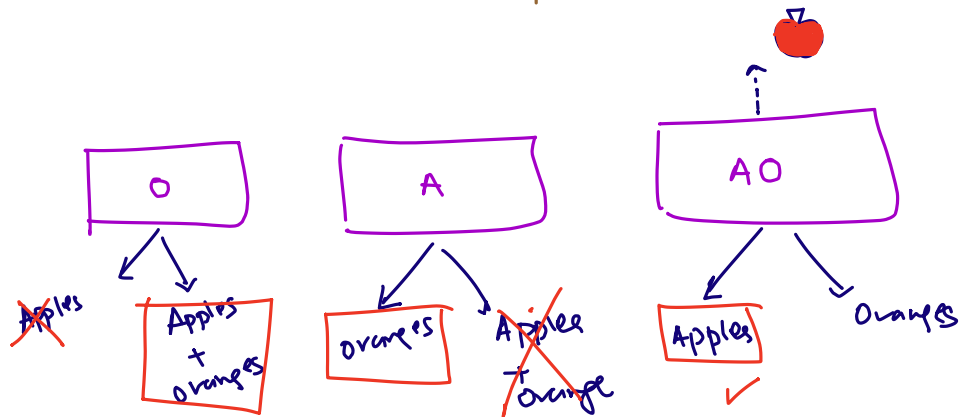
For   while loop   do-while

Entry → Condition is checked

exit → condition checked exit

$$x = 0$$
```
do {
    x = x + 1
}
while (x < 0);
```

x = 0

Two Approachs

① just printing the digits

n = 46 8̲

n=n/10 ↓
n = 46

↓

n = 4

↓

n = 0

while (n!=0):
   print(n%10)
   n = n//10

$\overrightarrow{8,6,4}$

1 2 3	3 2 1
= 1×10²	= 3×10²
+2×10	+2×10¹
+ 3×10⁰	+ 1×10⁰
=100+20+3	= 300+20+1
	=321

②   Actual   Rev

n = 246 8̲

vem=n%10
↓

2468 , 8

n=n//10
↓

246 ⑥

↓

24 ④

↓

2 '2'

↓

0 (Stop)

ans = [0]

⎡ ans = ans×10 + vem
⎢
⎣   = 0×10 + 8 = 8̲

= 8×10 + 6 = 8̲6̲ '4'

= 86×10 + 4 = 864 '2'

= 864×10 + 2 = 8642

[86]

= 8×10³
+ 6×10²
+ 4×10¹
+2×10⁰
=8642