A1: What gets printed?

a = 0	a = 0	a = 0
while a < 1:	while a < 2:	while a > 2:
a = a + 1	a = a + 1	a = a + 1
print(a)	print(a)	print(a)

a [0̸ 1] → ①

a [0̸ 1̸ 2] → ②

a [0] → ⓪

A2: What gets printed?

a = 4	a = 0
while a > 0:	while a < 3:
a = a – 1	if a < 2:
	a = a + 1
print(a)	print(a)

a [4̸ 3̸ 2̸ 1̸ 0] → ⓪

a [0̸ 1̸ 2]   "Infinite loop!"

A3: What gets printed?

```
a = 8
b = 12
while a != b:
  if a > b:
    a = a – b
  else:
    b = b – a
print(a)
```

A: *Infinite loop*
B: 8
C: 12
D: 4   **CORRECT**
E: *I don't know*

This is Euclid's Algorithm for finding the greatest common factor of two positive integers.
Trivia: It is one of the *oldest* recorded algorithms (~300 B.C.)