

Exercises in Tracing – Unit 2.5

1. Trace the following programs.

a)

```
a = 20
```

```
b = a / 2
```

```
c = a - b
```

```
if b < c:
```

```
    print "unfair"
```

```
elif a > b:
```

```
    print "easy as ABC"
```

```
print a, b, c
```

b)

```
i = 0
```

```
while i < 10:
```

```
    n = i ** 2
```

```
    if i % 2 == 0:
```

```
        print n
```

c)

```
x = y = z = 1    # trust me, it works
```

```
while z < 100:
```

```
    x = x * 2
```

```
    y = x * 2
```

```
    z = y * 2 - 10
```

```
    print x,y,z
```

d)

```
# traceEx4.py
```

```
n1 = "Vincent"
```

```
n2 = "Massey"
```

```
ans = ""
```

```
i = 0
```

```
while i < len(n2):
```

```
    ans = ans + n1[i] + n2[i]
```

```
    n1 = n1[2:]
```

```
    n2 = n2[2:]
```

```
    print ans
```