Evaluating JAVA Code, Sample 1:

Part A:

```
int x = 0;
for (int i = 0; i < 10; i = i + 1)
{
        if (i % 3 EQUALS 0)
                x = x + 3;
        else if (i % 2 EQUALS 0)
                x = x + 2;
        else
                x = x + 1;
}
```

i	x
0	3
1	4
2	6
3	9
4	11
5	12
6	15
7	16
8	18
9	21

What is the final value of x?

21

Part B:

```
int x = 0;
int y = 10;
while (y < 30)
{
    x = x + 1;
    y = x + y;
}
```

x	y
1	11
2	13
3	16
4	20
5	25
6	31

What is the final value of x?

6

Evaluating JAVA Code, Sample 2:

Part A:

```
int x = 0;

for (int i = 0; i < 10; i = i + 1)
{
        if (i % 4 EQUALS 1)
                x = x + 4;
        else if (i % 2 EQUALS 1)
                x = x + 2;
        else
                x = x + 1;
}
```

i	x
0	1
1	5
2	6
3	8
4	9
5	13
6	14
7	16
8	17
9	21

What is the final value of x?

21

Part B:

```
int x = 0;
int y = 10;
while (x + y < 50)
{
    x = y;

    y = x + y;
}
```

x	y
10	20
20	40

What is the final value of x?

20