

Go through each code. Every time a value or new value is assigned to a variable, write it down, keeping (in a column) a record of all assignments in the order they occur. At the same time record (in a separate column) all individual outputs, in the order that they occur. If at any point something goes wrong and the code won't run, say so. Also, if the code will get stuck in an endless loop, indicate that as well. After doing this, try running the code and see if your prediction was correct.

Code 1

```
for k=1:3
    a(k)=k^2
end
```

Code 2

```
for k=1:3
    a=k^2
end
```

Code 3

```
for k=1:3
    a(k)=k^2;
end
a
```

Code 4

```
for k=1:3
    a(k)=k^2;
end
a(k)
```

Code 5

```
ff(1)=1;
ff(2)=5;
seq(1)=0;
seq(2)=5;
k=2;
while seq(k)-seq(k-1)>0.001
    ff(k+1)=ff(k)+ff(k-1);
    seq(k+1)=ff(k+1)/ff(k);
    k=k+1;
end
seq
```

Code 6

```
ff(1)=1;
ff(2)=5;
seq(1)=0;
seq(2)=5;
k=2;
while abs(seq(k)-seq(k-1))>1
    ff(k+1)=ff(k)+ff(k-1);
    seq(k+1)=ff(k+1)/ff(k);
    k=k+1;
end
seq
```

Code 7

```
ff(1)=1;
ff(2)=5;
seq(1)=0;
seq(2)=5;
k=2;
while abs(seq(k)-seq(k-1))>0.001
    ff(k)=ff(k-1)+ff(k-2);
    seq(k)=ff(k)/ff(k-1);
    k=k+1;
end
seq
```

Code 8

```
ff(1)=1;
ff(2)=5;
seq(1)=0;
seq(2)=5;
k=2;
while abs(seq(k)-seq(k-1))<0.001
    ff(k+1)=ff(k)+ff(k-1);
    seq(k+1)=ff(k+1)/ff(k);
    k=k+1;
end
seq
```

Code 9

```
ff(1)=1;
ff(2)=5;
seq(1)=1;
seq(2)=1;
k=2;
while abs(seq(k)-seq(k-1))>0.001
    ff(k+1)=ff(k)+ff(k-1);
    seq(k+1)=ff(k+1)/ff(k);
    k=k+1;
end
seq
```

Code 10

```
cc(1)=1;
cc(2)=1;
for k=2:6
    if cc(k)<k
        cc(k+1)=cc(k)+cc(k-1);
    else
        cc(k+1)=cc(k)-k;
    end
end
cc
```