

Conditional

e.g.

Form 1

if expr:

statement(s)

```
a = 3
```

```
if a > 0:
```

```
    print('a is positive')
```

```
>>>'a is positive'
```

indentation

This is the output.

Indentation Matters !

This is a Python thingy !!!

Conditional

e.g.

Form 2

if expr:

statement(s)

else:

statement(s)

```
a = -3
```

```
if a > 0:
```

```
    print( 'a is positive.' )
```

```
else:
```

```
    print( 'a is not positive.' )
```

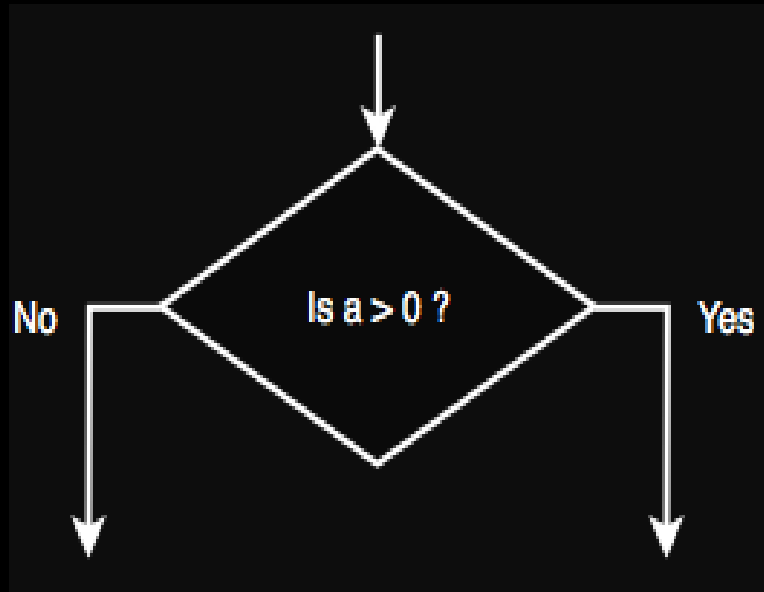
```
>>> 'a is not positive.'
```

indentation

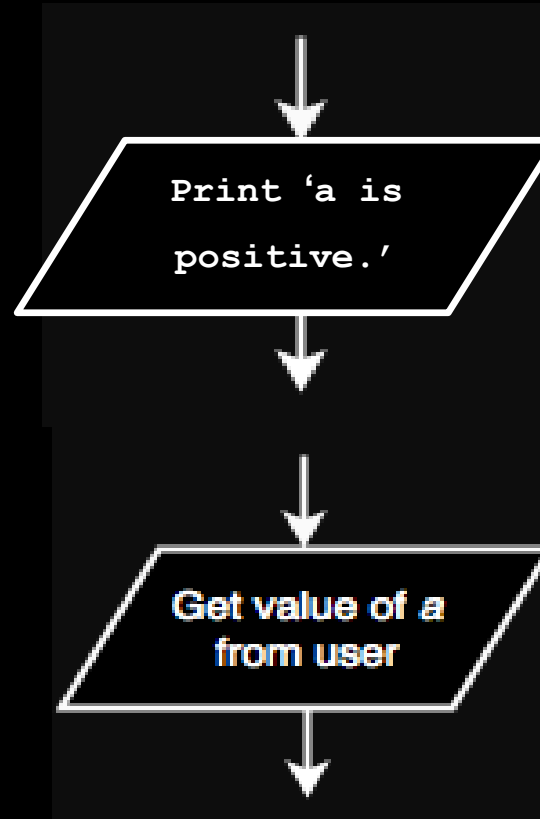


Flowcharts

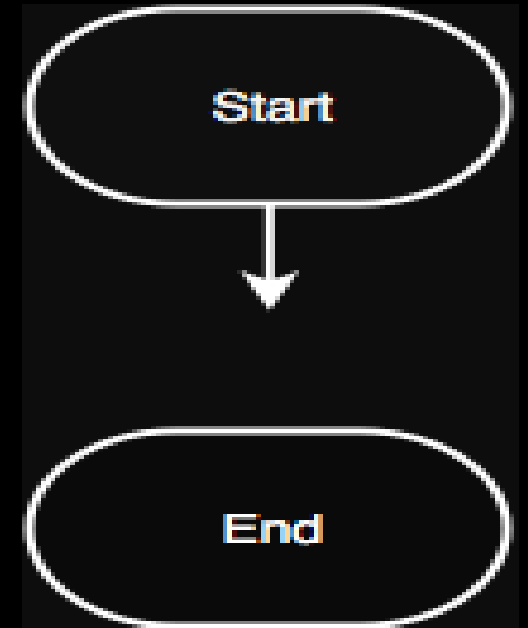
Decision
Nodes



Input / Output
Nodes

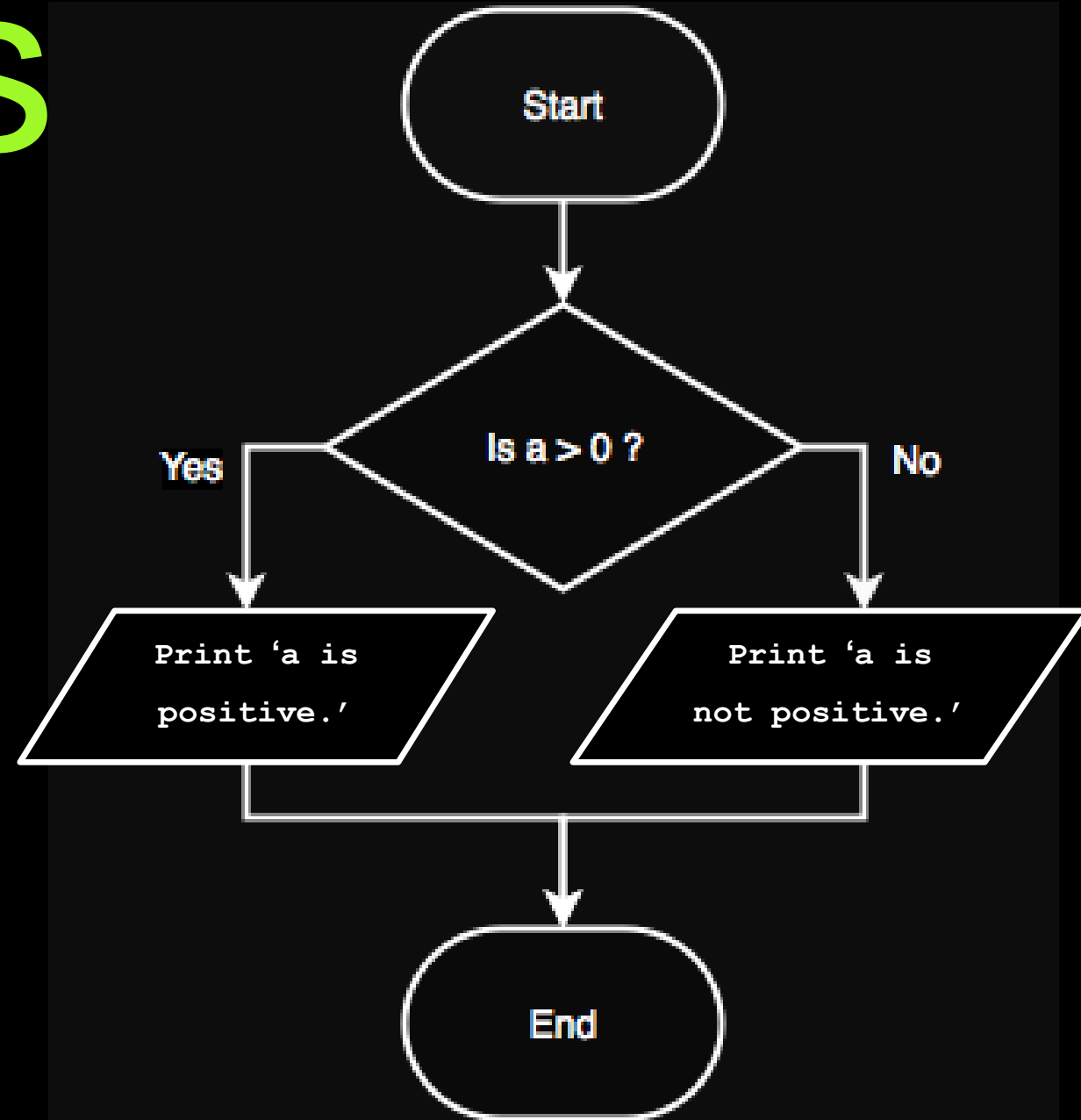


Terminal
Nodes



Flowcharts

```
if a > 0:  
    print('a is positive.')  
else:  
    print('a is not positive.)
```



Conditional

e.g.

Form 3

```
if expr1:  
    statement(s)  
elif expr2:  
    statement(s)  
else:  
    statement(s)
```

```
a = -3  
if a == 0:  
    print('a is zero.')elif a > 0:  
    print('a is positive.')else:  
    print('a is negative.')
```

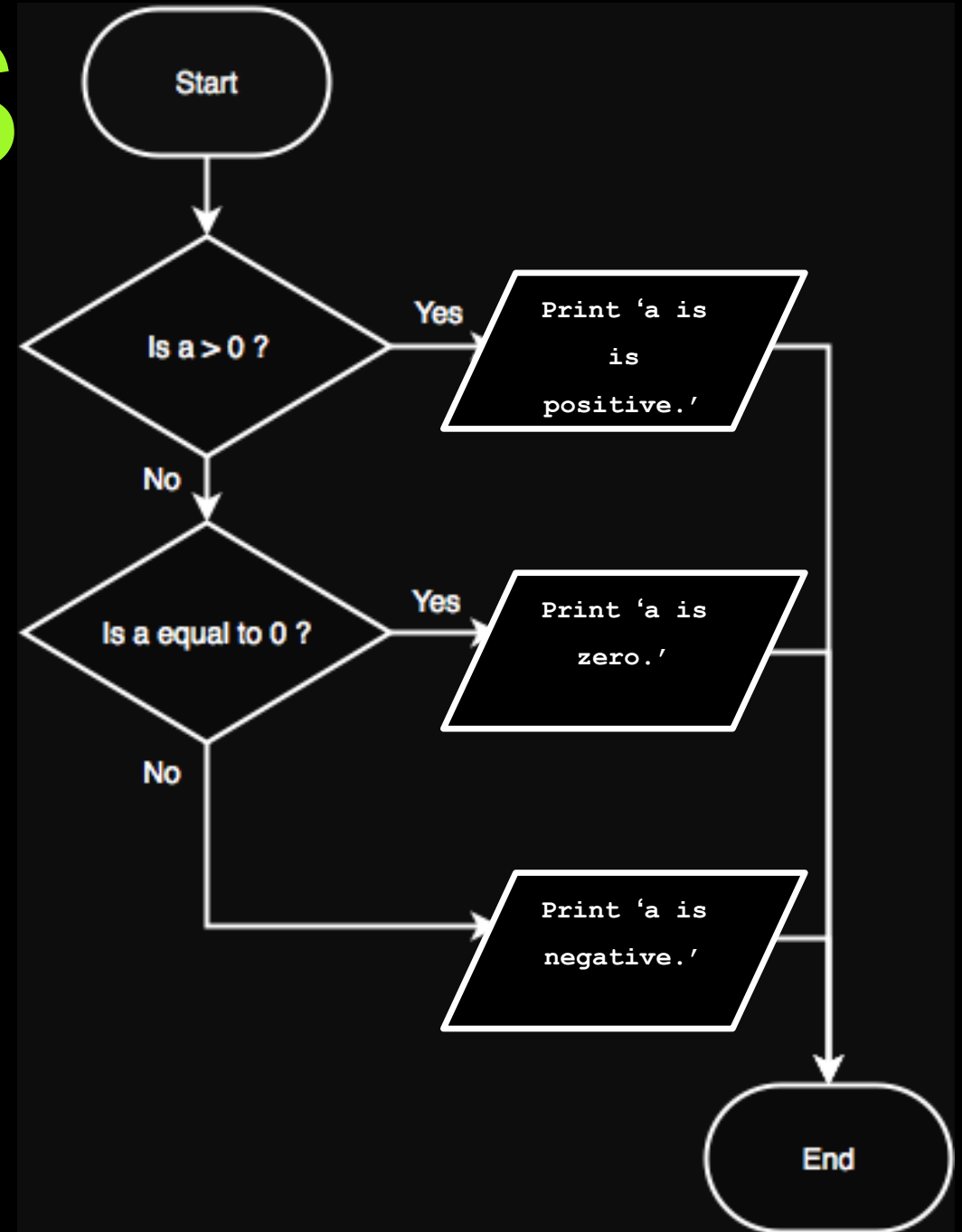
```
>>> 'a is negative.'
```

Flowcharts

```
if a > 0:  
    print('a is positive.')
```

```
elif a == 0:  
    print('a is zero.')
```

```
else:  
    print('a is negative.')
```



Conditional

Form 4

```
if expr1:  
    statement(s)  
elif expr2:  
    statement(s)  
elif expr3:  
    statement(s)  
else:  
    statement(s)
```

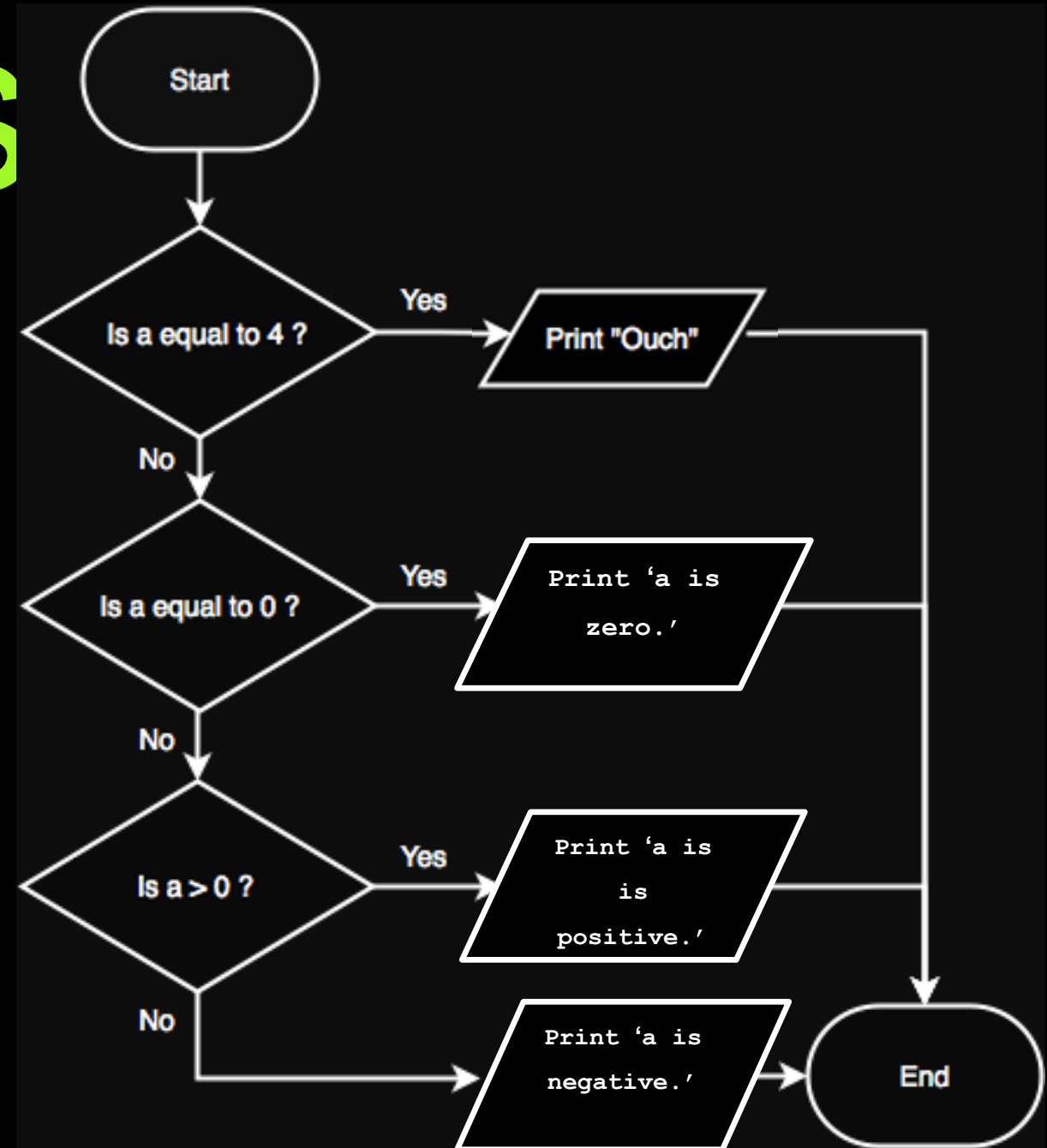
e.g.

```
a = 4  
if a == 4:  
    print('Ouch')  
elif a == 0:  
    print('a is zero.')  
elif a > 4:  
    print('a is positive.')  
else:  
    print('a is negative.')
```

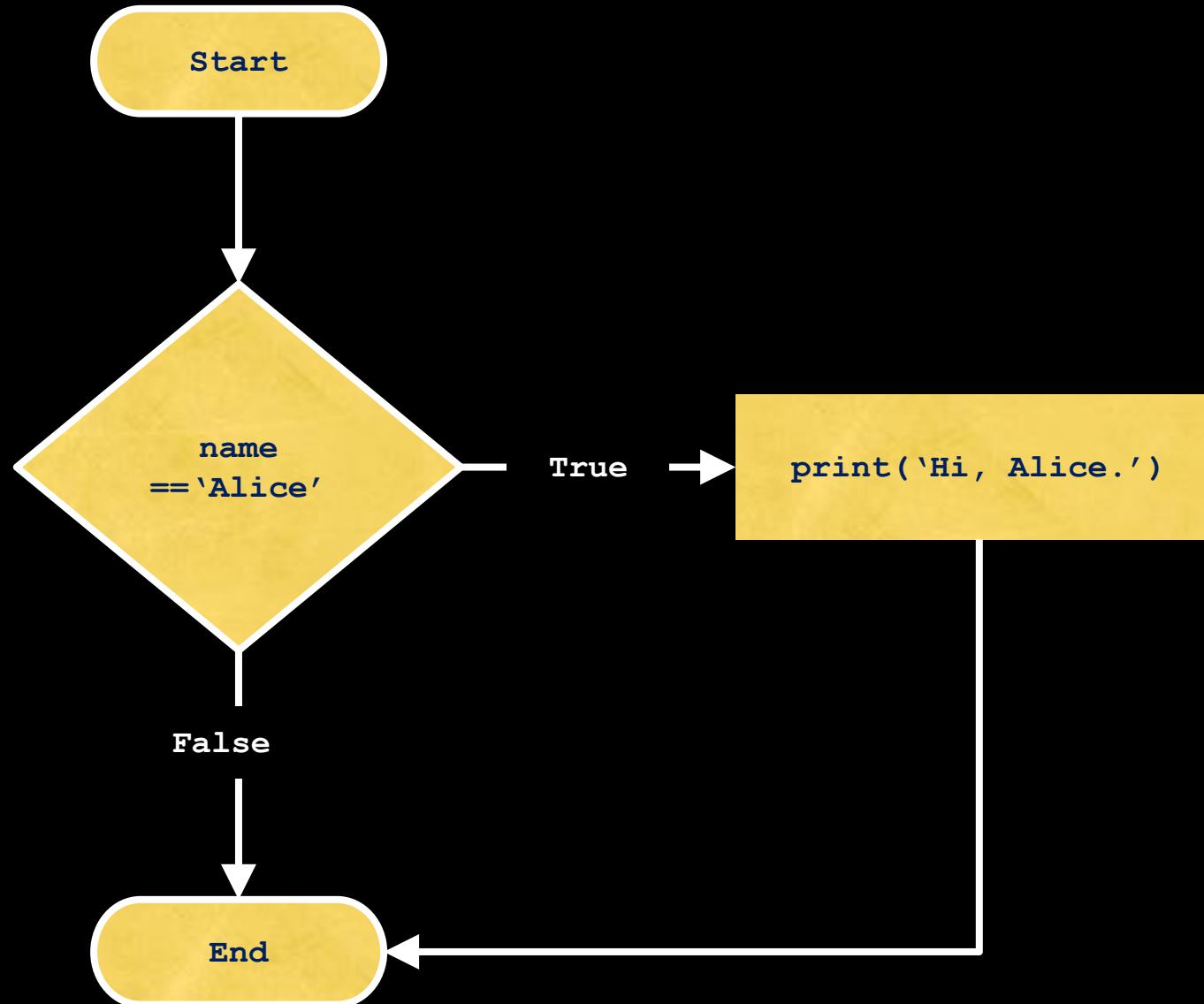
```
>>> 'Ouch'
```


Flowcharts

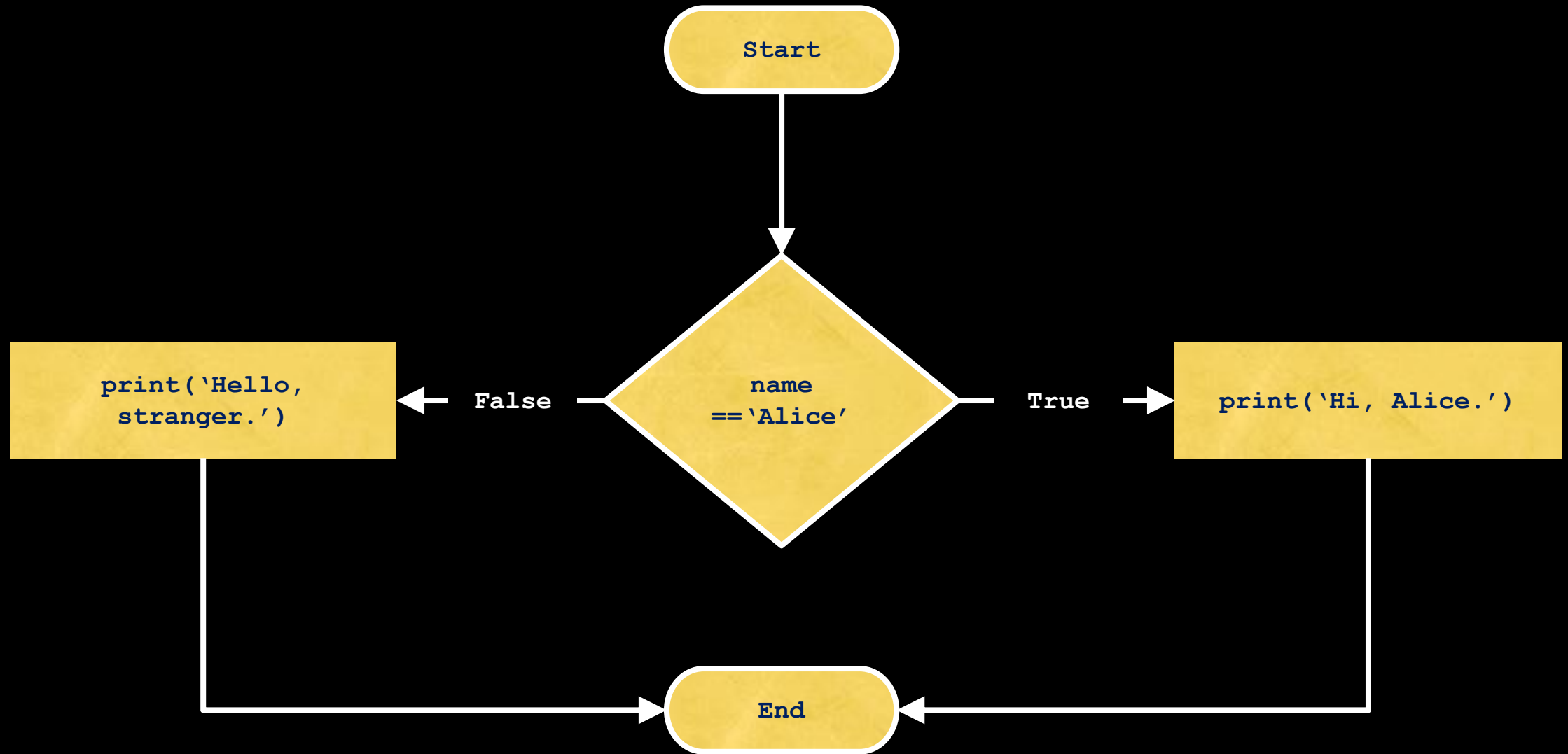
```
if a == 4:  
    print('Ouch')  
elif a == 0:  
    print('a is zero.')  
elif a > 4:  
    print('a is positive.')  
else:  
    print('a is negative.')
```



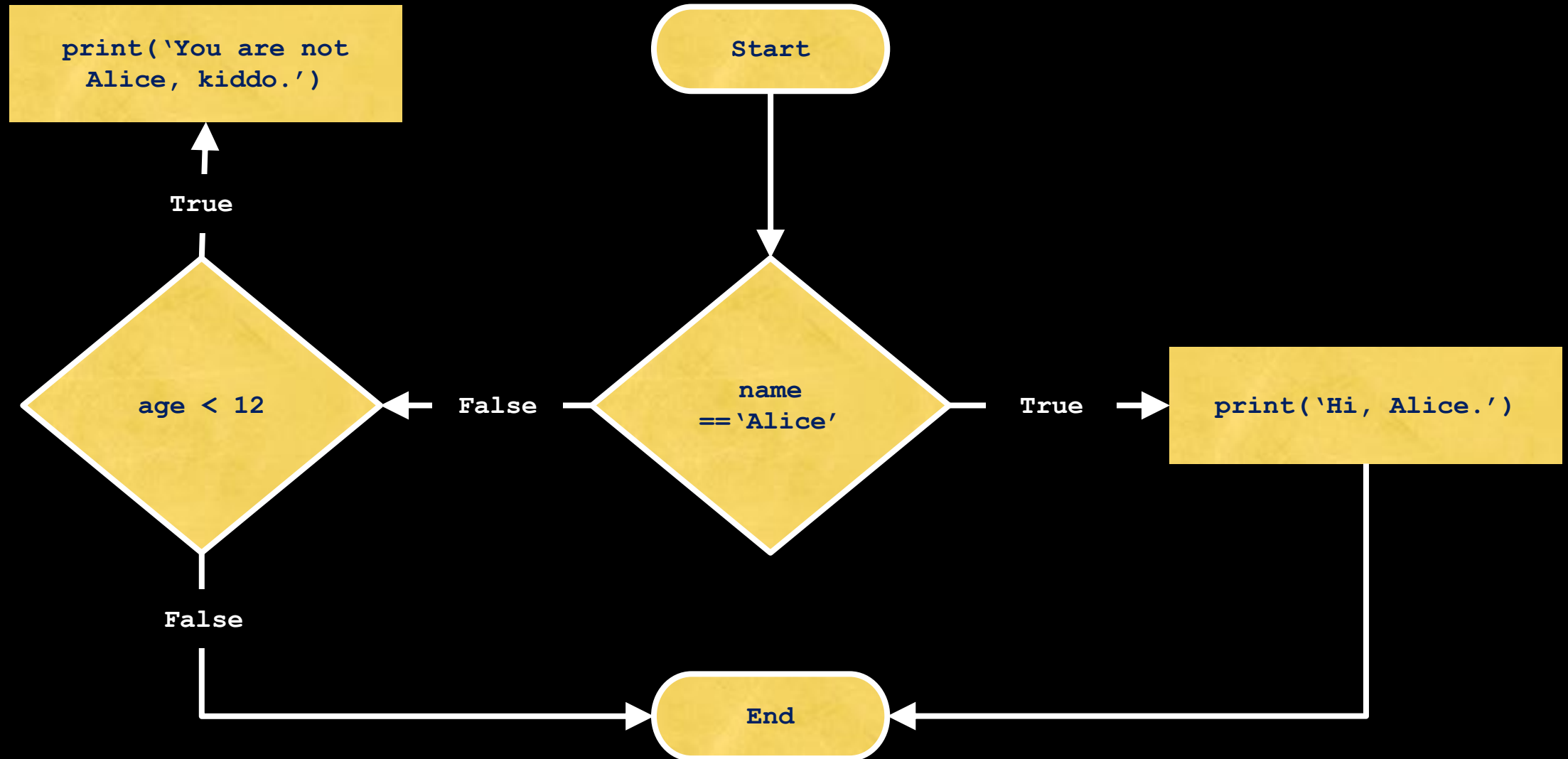
The flowchart for an `if` statement



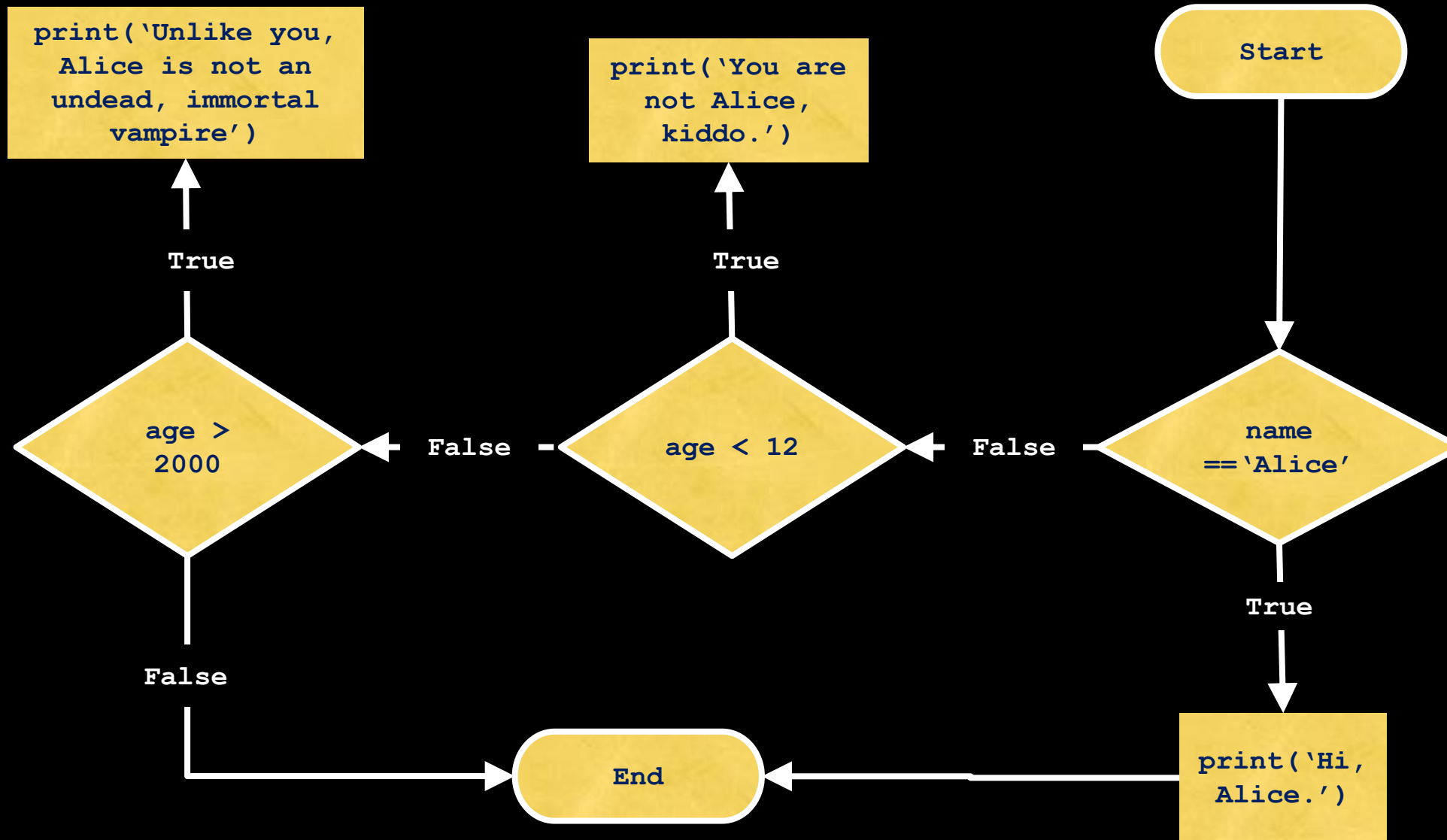
The flowchart for an `if-else` statement



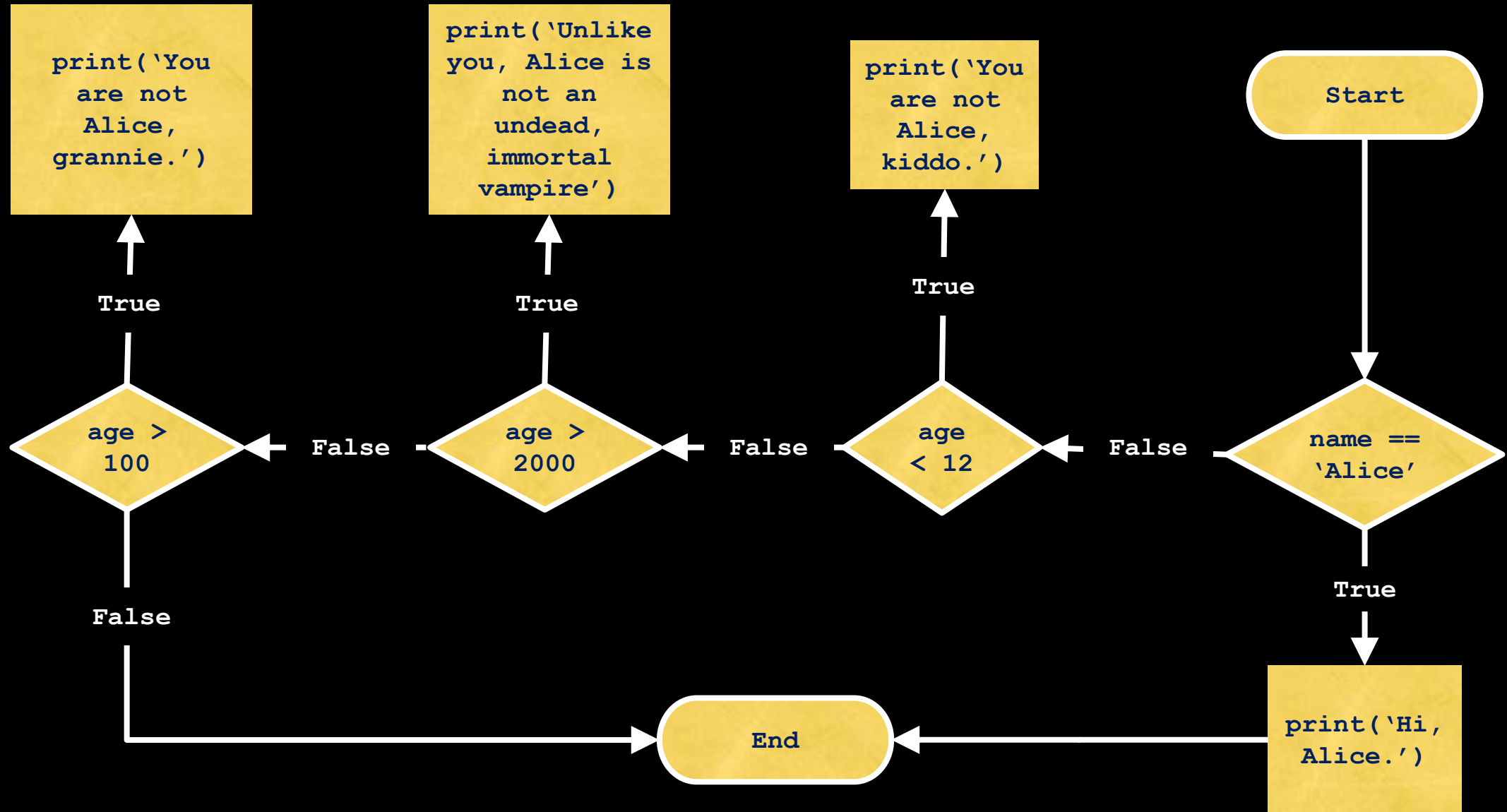
The flowchart for an `if-elif` statement



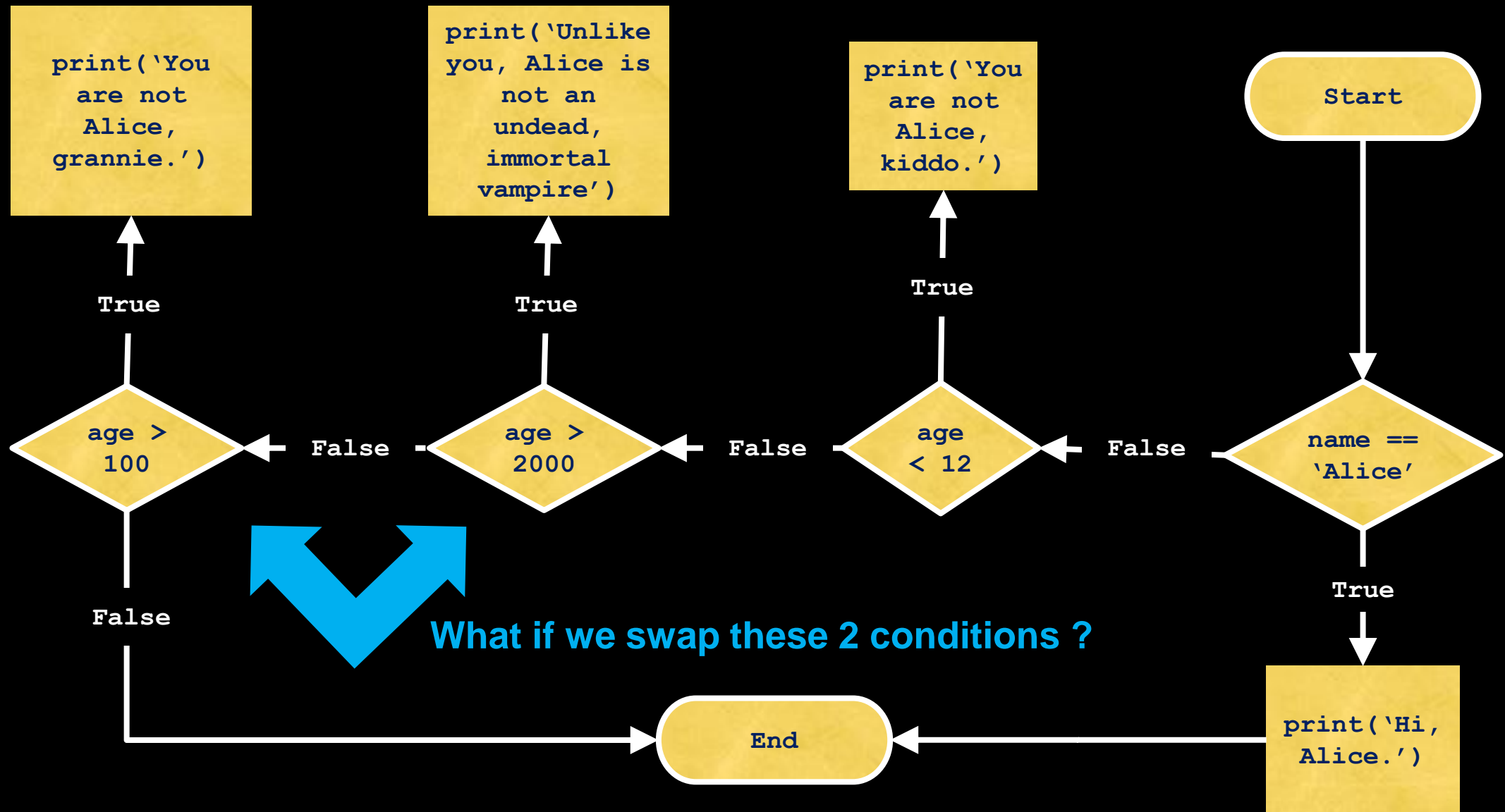
The flowchart for `multiple elif` statements



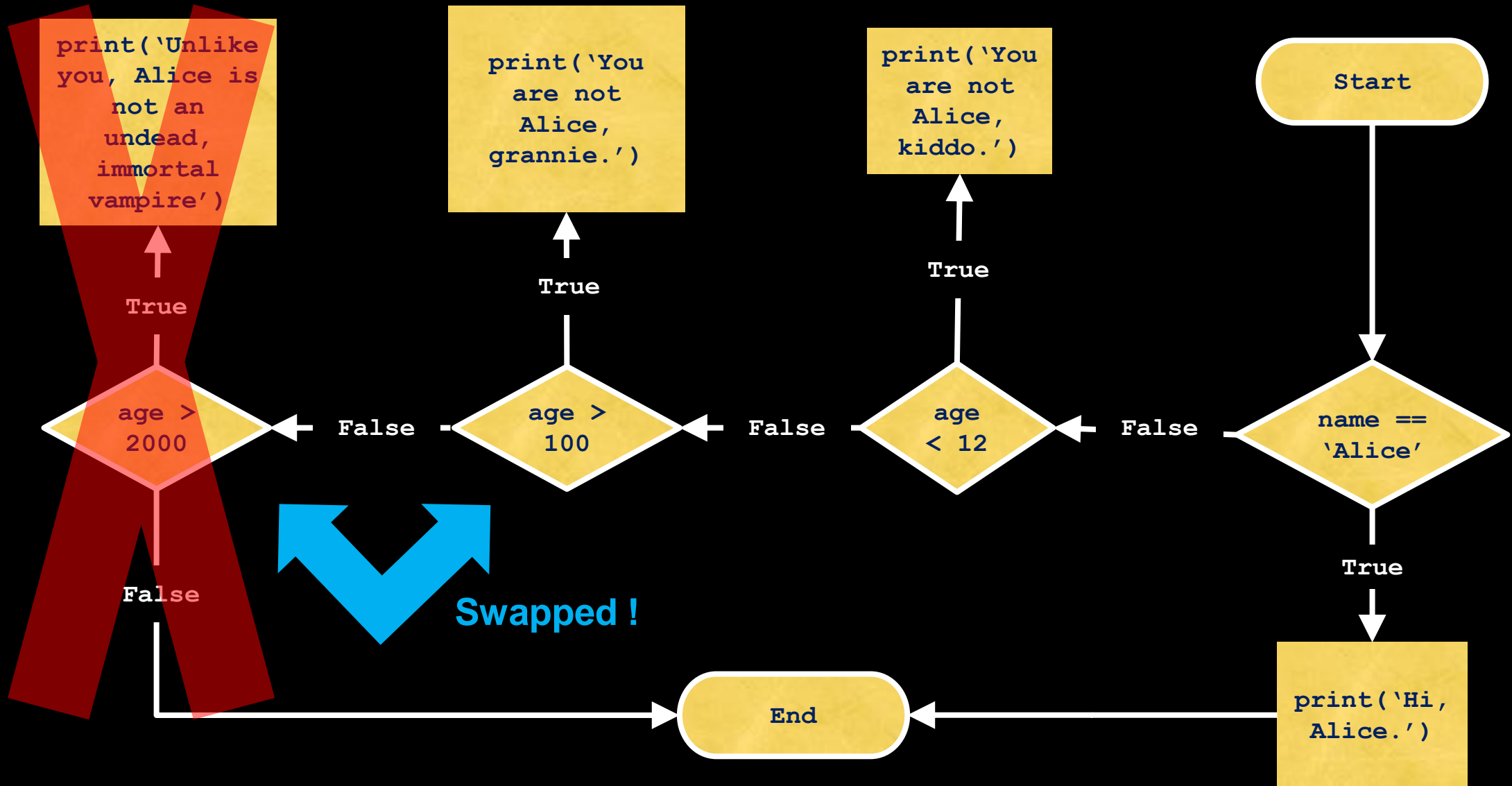
The flowchart for `multiple elif` statements



The flowchart for `multiple elif` statements



The flowchart for `multiple elif` statements



The flowchart for an `if-elif-else` statement

