

Provide the line numbers which are activated and the output produced.

```
1      If x<50:
2          print "hello"
3      If x<70:
4          print "hi"
5      If x>=70:
6          print "howdy"
```

Whenever x = 40

The program will return "hi" from $x < 70$ and "hello" from $x < 50$ because the outcomes of two if statements can both occur when the two statements are true. Lines 1-4

Whenever x = 60

The program will return "hi" when $x = 60$. Lines 3 and 4.

Whenever x = 80

The program will return "howdy" when $x = 80$. Lines 5 and 6.

```
-----
1      If x<50:
2          print "hello"
3      elif x<70:
4          print "hi"
5      else:
6          print "howdy"
```

Whenever x = 40

When $x = 40$ lines 1 and 2 will be activated to give the output "hello"

Whenever x = 60

When $x = 60$ lines 3 and 4 will be activated to give the output "hi"

Whenever x = 80

When $x = 80$ lines 5 and 6 will be activated to give the output "howdy"