

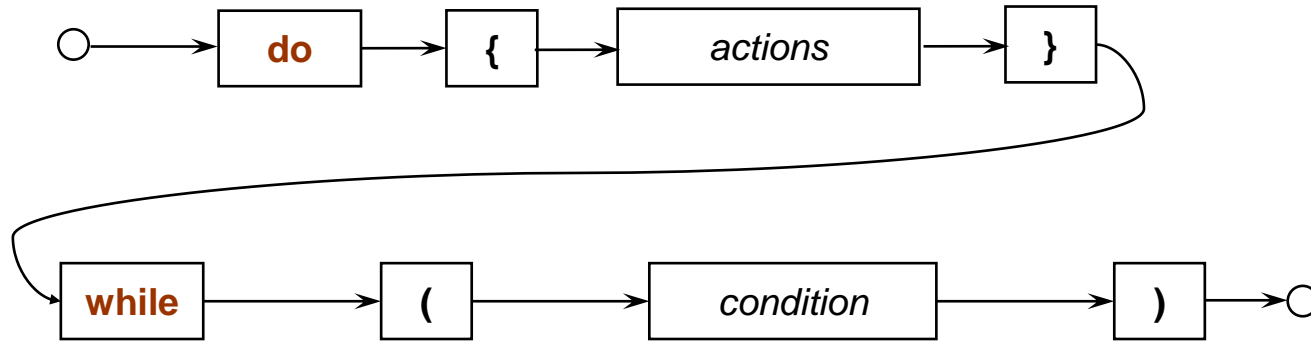
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# **do/while loops**

## **COMP 102**

**Victoria University of Wellington**

# While statement



- Meaning:
  - Repeatedly do the actions while the condition is true
  - If the condition is false, stop and go on to the next statement.
- Similar to the “regular” **while**, but NOT THE SAME!
  - do actions once if the condition is initially false

# do-while and while loops

- A do-while loop can be translated into a while loop:

```
int i = 0;
do {
    UI.println("I can count to " + i + "!");
    i++;
} while (i < 10)
```

```
String sentence = "";
do {
    String word = UI.askString("Next word: ");
    sentence = sentence + word;
} while (! sentence.endsWith("."))
```

```
initialisation
do {
    body
    change
} while (condition)
```

```
int i = 0;
while (i < 10) {
    UI.println("I can count to " + i + "!");
    i++;
}
```

```
String sentence = UI.askString("Next word: ");
while (! sentence.endsWith(".")) {
    String word = UI.askString("Next word: ");
    sentence = sentence + word;
}
```

```
initialisation
while (condition) {
    body
    change
}
```