Exercise Sheet 3

Exercise 1: Lists and Arrays

a) iii)

b) ii)

Exercise 2: Stacks

a) The array $[(]$ and the array $[(,(,)]$ result in a return of *true*, but they are no correct sequences of parantheses.
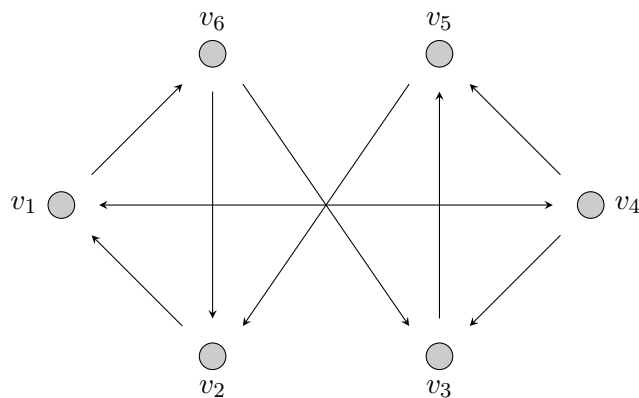
b) One can insert

> **Algorithm**
>
> **if** *S.isEmpty()* **then**
> **return** *false*

between line 8 and 9

Exercise 3: Graphs

a)

b)

v_1	v_4	v_6	
v_2	v_1		
v_3	v_5		
v_4	v_1	v_3	v_5
v_5	v_2		
v_6	v_2	v_3	