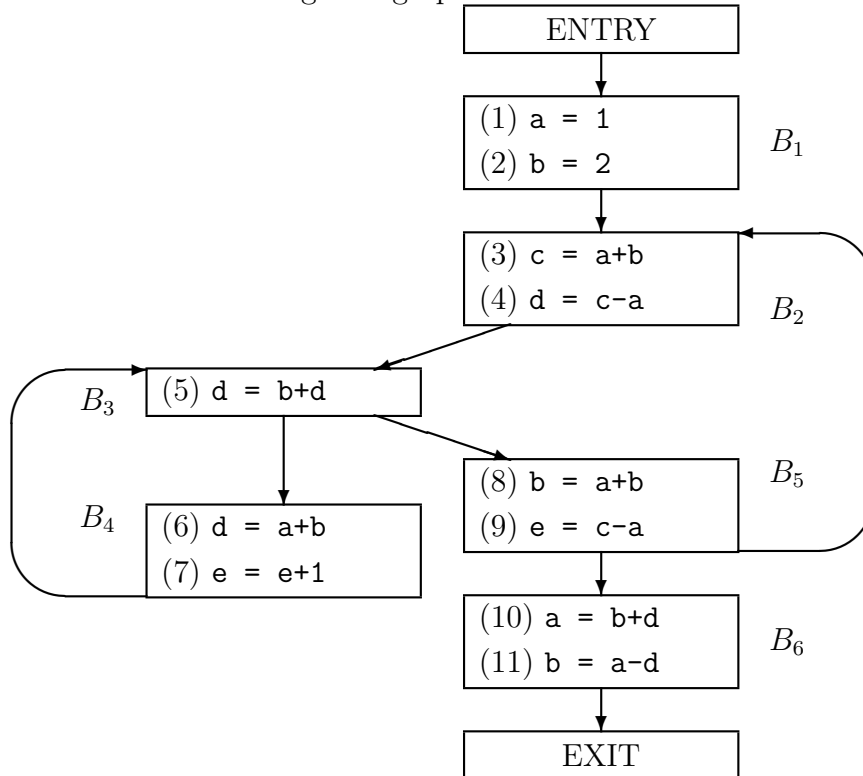


**Werkcollege Compilerconstructie**  
**Dinsdag 26 november 2013**

Consider the following flow graph:



**Exercise 9.2.1.** Reaching definitions.

For the above flow graph, compute

- (a) The *gen* and *kill* sets for each block.
- (b) The IN and OUT sets for each block.

**Exercise 9.2.2.** Available expressions.

For the above flow graph, compute

- (a) The *e\_gen* and *e\_kill* sets for each block.
- (b) The IN and OUT sets for each block.

**Exercise 9.2.3.** Live variables.

For the above flow graph, compute

- (a) The *def* and *use* sets for each block.
- (b) The IN and OUT sets for each block.