

# Compilers 2014-2015

## Reeks 1 Oplossing

### Compilatie schema's

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1.
  - ldc a 5; ldc a 5; add i;  
ind i; ind i; add i;  
ldc a 5; ldc a 6; add i;  
ind i; ind i;
  - 11 locations
2.
 

ldc a 107;	ixa 1;	ind i;	inc a 0;
ind a;	dec a -44;	chk -5 5;	ldc i 0;
inc a 0;	ldc a 107;	ixa 9;	chk -5 5;
ldc a 5;	ind a;	ldc a 6;	ixa 9;
ind i;	inc a 99;	ind i;	ldc i 1;
chk -5 5;	ind a;	chk 1 9;	chk 1 9;
ixa 9;	inc a 99;	ixa 1;	ixa 1;
ldc a 6;	ind a;	dec a -44;	dec a -44;
ind i;	inc a 0;	ind i;	ind i;
chk 1 9;	ldc a 5;	ldc a 7;	add i;
3.
 

0		mst 0	9		lda 0 5	18	$l_{add_b}$ :	lda 0 7
1		cup 0 $l_{mi}$	10		ldc i 0	19		lod a 0 5
2	$l_{mi}$ :	ssp 6	11		ldc i 3	20		ind i
3		sep 8	12		add i	21		lda 0 6
4		ujp $l_{mb}$	13		cup 2 $l_{add_i}$	22		ind i
5	$l_{mb}$ :	lda 0 5	14		stp	23		add i
6		ldc i 4	15	$l_{add_i}$ :	ssp 8	24		sto i
7		sto i	16		sep 3	25		str i 0 0
8		mst 0	17		ujp $l_{add_b}$	26		retf