

Q1

Pc			Fp pile
0	PUSHI	0	0 [ ] 0
2	PUSHI	0	0 [ 0 ] 1
4	JUMP	6	0 [ 0 0 ] 2
6	PUSHI	7	0 [ 0 0 ] 2
8	STOREG	0	0 [ 0 0 7 ] 3
10	PUSHI	0	0 [ 7 0 ] 2
12	STOREG	1	0 [ 7 0 0 ] 3
14	PUSHG	0	0 [ 7 0 ] 2
16	PUSHI	1	0 [ 7 0 7 ] 3
18	SUP		0 [ 7 0 7 1 ] 4
19	JUMPF	37	0 [ 7 0 1 ] 3
21	PUSHG	0	0 [ 7 0 ] 2
23	PUSHI	2	0 [ 7 0 7 ] 3
25	DIV		0 [ 7 0 7 2 ] 4
26	STOREG	0	0 [ 7 0 3 ] 3
28	PUSHG	1	0 [ 3 0 ] 2
30	PUSHI	1	0 [ 3 0 0 ] 3
32	ADD		0 [ 3 0 0 1 ] 4
33	STOREG	1	0 [ 3 0 1 ] 3
35	JUMP	14	0 [ 3 1 ] 2
14	PUSHG	0	0 [ 3 1 ] 2
16	PUSHI	1	0 [ 3 1 3 ] 3
18	SUP		0 [ 3 1 3 1 ] 4
19	JUMPF	37	0 [ 3 1 1 ] 3
37	PUSHG	1	0 [ 3 1 ] 2
39	WRITE		0 [ 3 1 ] 2
40	POP		0 [ 3 1 ] 2
41	HALT		0 [ 3 ] 1

Q2

PUSHI 0	Adr   Instruction
JUMP 0	-----+
LABEL 0	0   PUSHI 0
PUSHI 6	2   JUMP 4
STOREG 0	4   PUSHI 6
LABEL 1	6   STOREG 0
PUSHG 0	8   PUSHG 0
PUSHI 10	10   PUSHI 10
INF	12   INF
JUMPF 2	13   JUMPF 24
PUSHG 0	15   PUSHG 0
PUSHI 1	17   PUSHI 1
ADD	19   ADD
STOREG 0	20   STOREG 0
JUMP 1	22   JUMP 8
LABEL 2	24   PUSHG 0
PUSHG 0	26   WRITE
WRITE	27   POP
POP	28   HALT
HALT	

Q3 :

condition

: expression a=expression ope('='|'|'>'>='|'<'<=') b=expression  
{

if (\$Sope.texte == "==") \$Sope.code= "EQUAL" ;  
else if (\$Sope.texte == "<=") \$Sope.code= "INFEQ";  
else if (\$Sope.texte == ">=") \$Sope.code= "SUPFEQ";  
else if (\$Sope.texte == "!=") \$Sope.code= "NEQ" ;  
else if (\$Sope.texte == ">") \$Sope.code= "SUP";  
else if (\$Sope.texte == "<") \$Sope.code= "INF";

\$code = \$a.code + \$b.code + \$Sope.code + «\n » ;

| TRUE { \$code = « PUSHI 1 » + «\n » }

| FALSE { \$code = « PUSHI 0 » + «\n » } ;