

Compilers A-4

- Ans 1 (a) Name (String) (d) Scope (global/local/param/temp)
 (b) Datatype (e) offset (from base pointer) if any.
 (c) Block Level (f) Initial Value (default value).

Ans 2

	OP	arg1	arg2	result
0	+	i	2	t ₁₀
1	=	t ₁₀	NULL	i
2	*	j	4	t ₆
3	=[]	mem	t ₆	t ₁
4	<	t ₁	arg	G

Ans 3

ST. glb	Parent: NULL
x_g	
x_g	int global 4
f	int → void func 0 0
g	int → int func 0 0

ST. f()	Parent: ST. glb
m	int param 4 +4
x	float local 4 -4
i	float local 4 -8
i-\$1	int local 4 -12
j-\$1	int local 4 -16
x-\$2	int local 4 -20

ST. f()\$1	Parent - ST. f()
i-\$1	int local 4 -4
j-\$1	int local 4 -8

ST f(1) \$ 2

Parent ST.f(1)

x \$ 2 int local

4 -4

ST g()

Parent: ST.glob

n int param
t bool local

4 +4
1 -1