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Sect 04

Answer to - 1

record { float [2] [3] a; int b; } P;

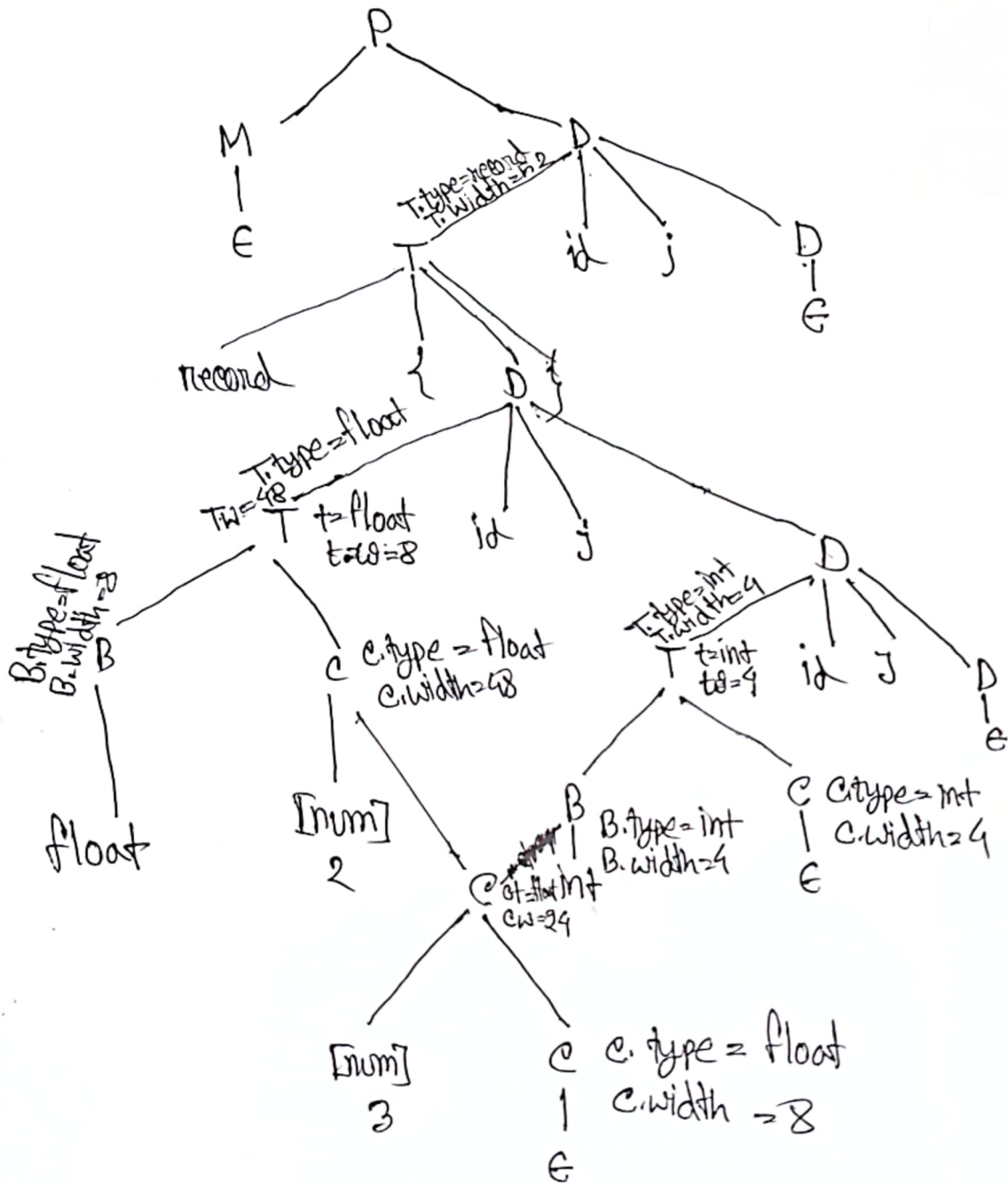
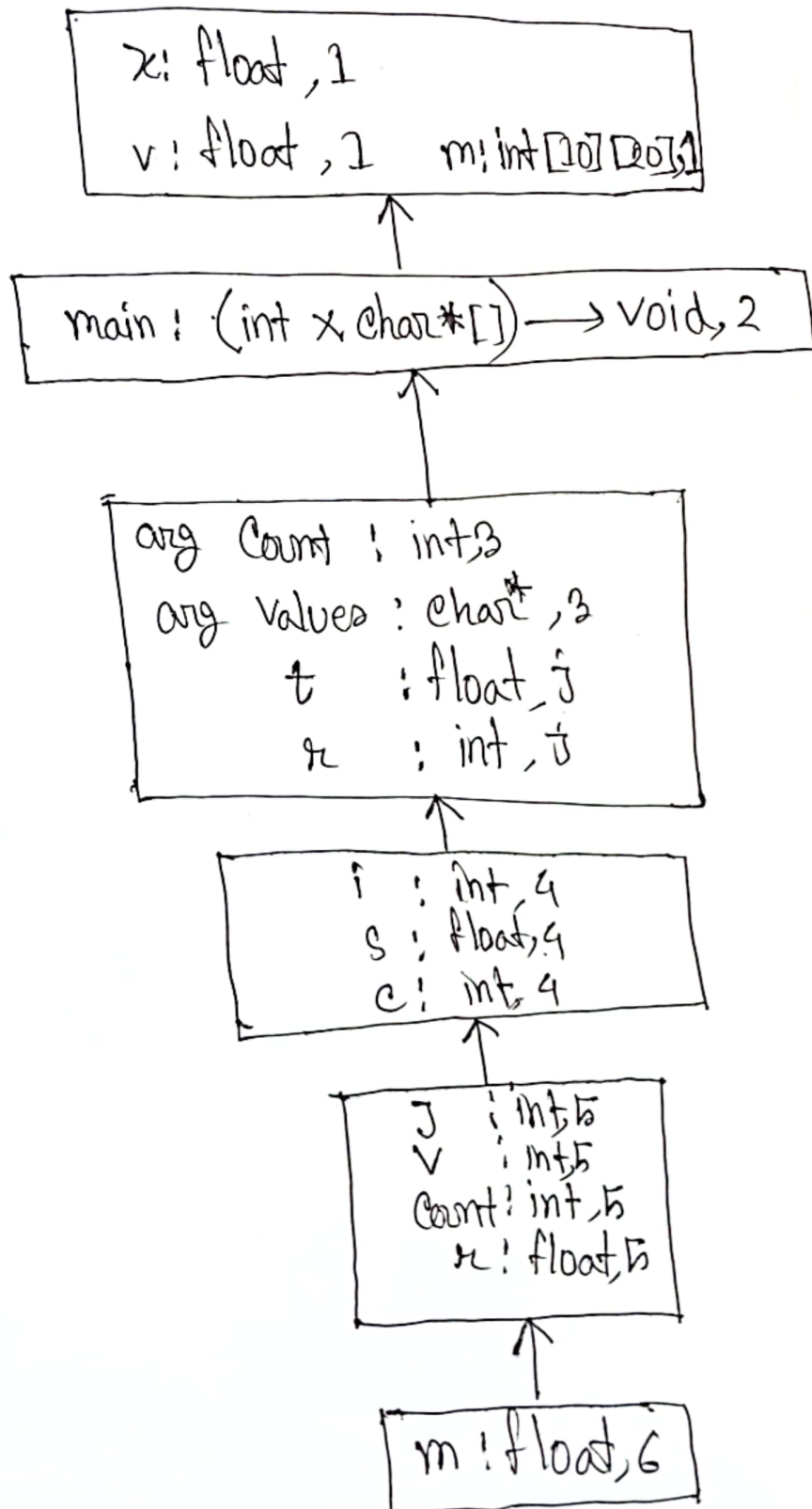


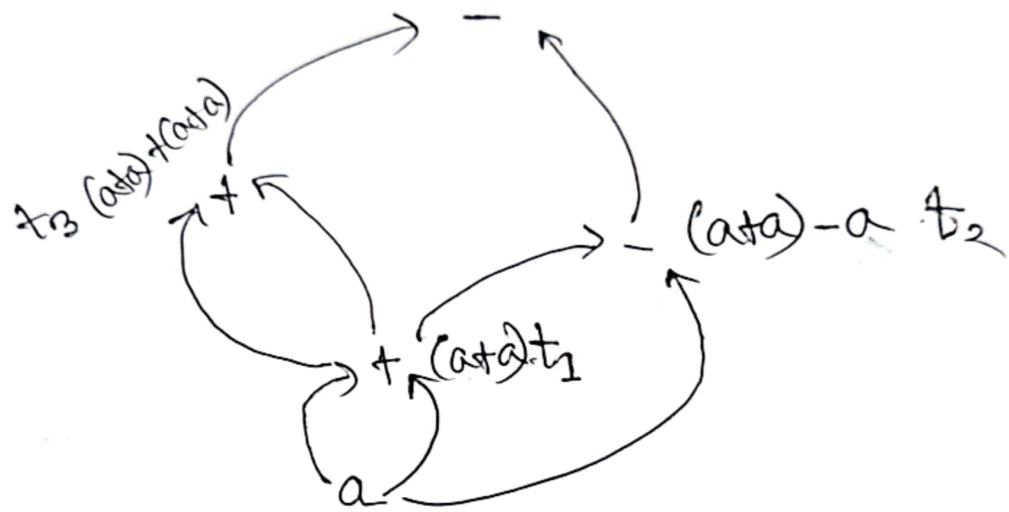
Fig. 1. Paraphrase, SDT non terminal

Answer to-2



'~~r~~ & m' this will be executed in this line.

Answer to 3 (a)
 $t_4 = (t_3 + (t_2 - a)) - (t_2 - a)$



3 address code for the directed Acyclic Graph.

$$t_1 = a + a$$

$$t_2 = t_1 - a$$

$$t_3 = t_1 + t_1$$

$$t_4 = t_3 - t_2$$

3 (b)

The quadruples representation of the 3 address code:

Op	arg1	arg2	Result
+	a	a	t ₁
-	t ₁	a	t ₂
+	t ₁	t ₁	t ₃
-	t ₃	t ₂	t ₄

Triples

	Op	arg1	arg2
(0)	+	a	a
(1)	-	(0)	a
(2)	+	(0)	(0)
(3)	-	(2)	(1)