# Quiz-2

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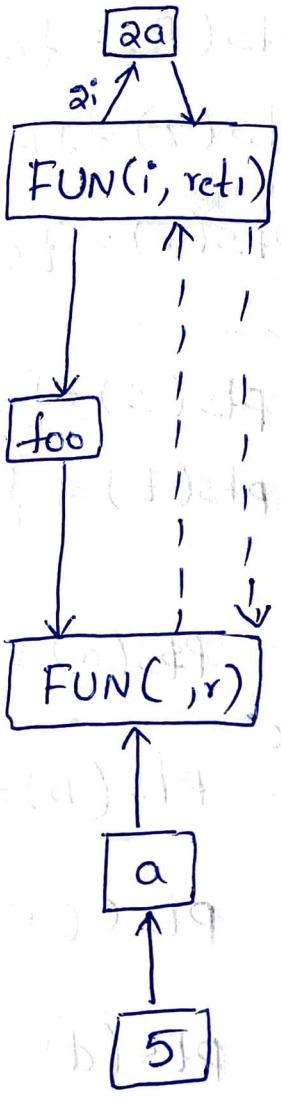
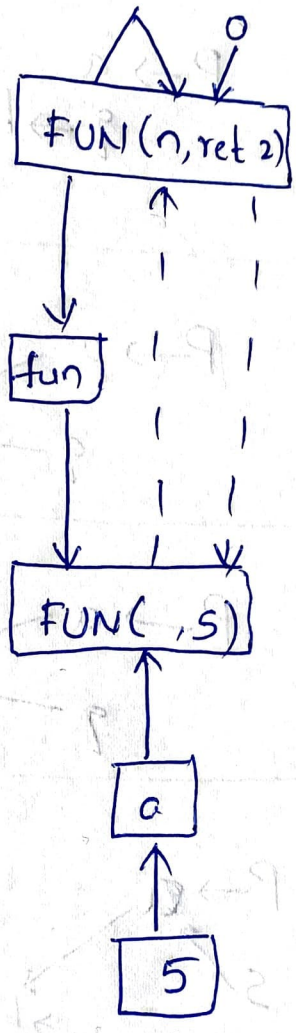
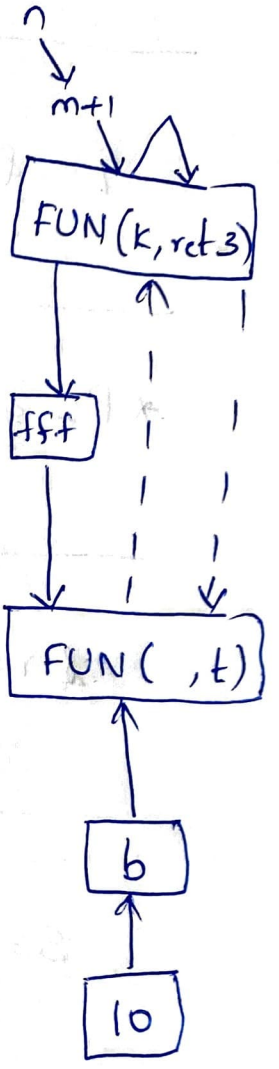
Q1)




r = {10}




S = {5}




k = {error, 10}

Q2)

| | |
|---|---|
| `P = &a;` | $P \rightarrow a$ |
| `q = &b;` | $P \rightarrow a$, $q \rightarrow b$ |
| `*P = q` | $P \rightarrow a$, $q \rightarrow b$ |
| `&r = &c;` | $P \rightarrow a$, $q \rightarrow b$, $r \rightarrow c$ |
| `s = P;` | $P \rightarrow a$, $s \rightarrow a$, $q \rightarrow b$, $r \rightarrow c$ |
| `t = *P;` | $P \rightarrow a$, $s \rightarrow a$, $q \rightarrow b$, $t \rightarrow b$, $r \rightarrow c$ |
| ~~`t = &d;`~~<br>`*s = r;` | $P \rightarrow a$, $s \rightarrow a$, $q \rightarrow b$, $t \rightarrow b$, $r \rightarrow c$, ~~$d$~~ |

$pts(P) = \{a\}$

$pts(q) = \{b\}$

$pts(r) = \{c\}$

$pts(s) = \{a\}$

$pts(t) = \{b, c, d\}$

$pts(a) = \{b, c\}$

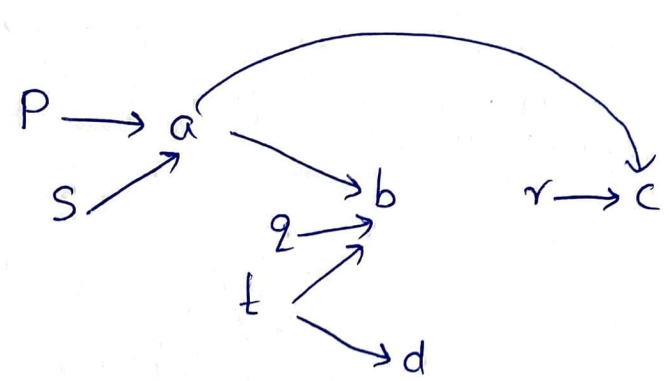
$pts(b) = \emptyset$

$pts(c) = \emptyset$

$pts(d) = \emptyset$

02)

$t = \&d;$




03) Static Slicing for (S10, Y)

```
S1 :  read (x);
S2 :  if (x < 0)
      then
S3 :  y := f1 (x)
      else
S5 :    if (x = 0)
        then
S6 :    y := f2 (x)
        else
S8 :    y := f3 (x);
        end - if;
        end - if;
S10 :   write (y)
        end
```