R2) Mi carnet es 15-10627 entonces X=6
Y=2 y Z=7

a) Alcance estático y asociación profunda

```
Int a=7, b=2.
sub meha(int c){
  b:= a+c;
}

sub k(int b, sub go, sub ku){
  sub meha(int c){
    a:= b-c;
  }
  int a=8
  if(b< 3*(7)){
    k(b+3*(7), meha, go);
  } else if (b< 6*(7)){
    k(b+3*(7), ku, meha);
  } else {
    int b=7-b;
    go(a+b);
    ku(a-b);
  }
    print(a,b);
}
k(a, meha, meha);
print(a,b);
```

Imprime

8,	49
8,	28
8,	7
-22,	-27

	Global
a	✗ / -22
b	✗ / -27
meha	sub
k	sub

Meha8	ku	17 C 50	
Meha6	go	16 C -34	
		15 b -42	
		14 a 8	
	k	13 meha sub	
		12 ku meha8	→ a G, b 5
		11 go ku7	
		10 b 49	
		9 a 8	
		8 meha sub	
	k	7 ku go1	
		6 go meha3	→ a G, b 0
		5 b 28	
		4 a 8	
		3 meha sub	
	k	2 ku meha6	→ a G
		1 go meha6	→ b G
		0 b7	

b) Alcance dinamico y asociación profunda.

```
Int a = 7, b = 2;
sub meha(int c) {
   b := a + c;
}

sub k(int b, sub go, sub ku) {
   sub meha(int c) {
      a := b - c;
   }
   int a = 8
   if (b < 3*(7)) {
      k(b+3*(7), meha, go);
   } else if (b < 6*(7)) {
      k(b+3*(7), ku, meha);
   } else {
      int b = 7 - b;
      go(a+b);
      ku(a-b);
   }
   print(a,b);
}
k(a, meha, meha);
print(a,b);
```

Imprime

8	49
-22	28
8	7
7	-27

meha 8	ku	17 C 50
meha 6	go	16 C -34
		15 b -42
		14 a 8
	k	13 meha sub
		12 ku meha 8
		11 go ku 7
		10 b 49
		9 a 8 / -22
		8 meha sub
	k	7 ku go 1
		6 go meha 3
		5 b 28
		4 a 8
		3 meha sub
	k	2 ku meha 6
		1 go meha 6
		0 b 7

Global
a 7
b 2 / -27
meha sub
k sub

a 9
b 5

a 4
b 0

a 6
b 6

C) Alcance estatico y asociacion superficial.

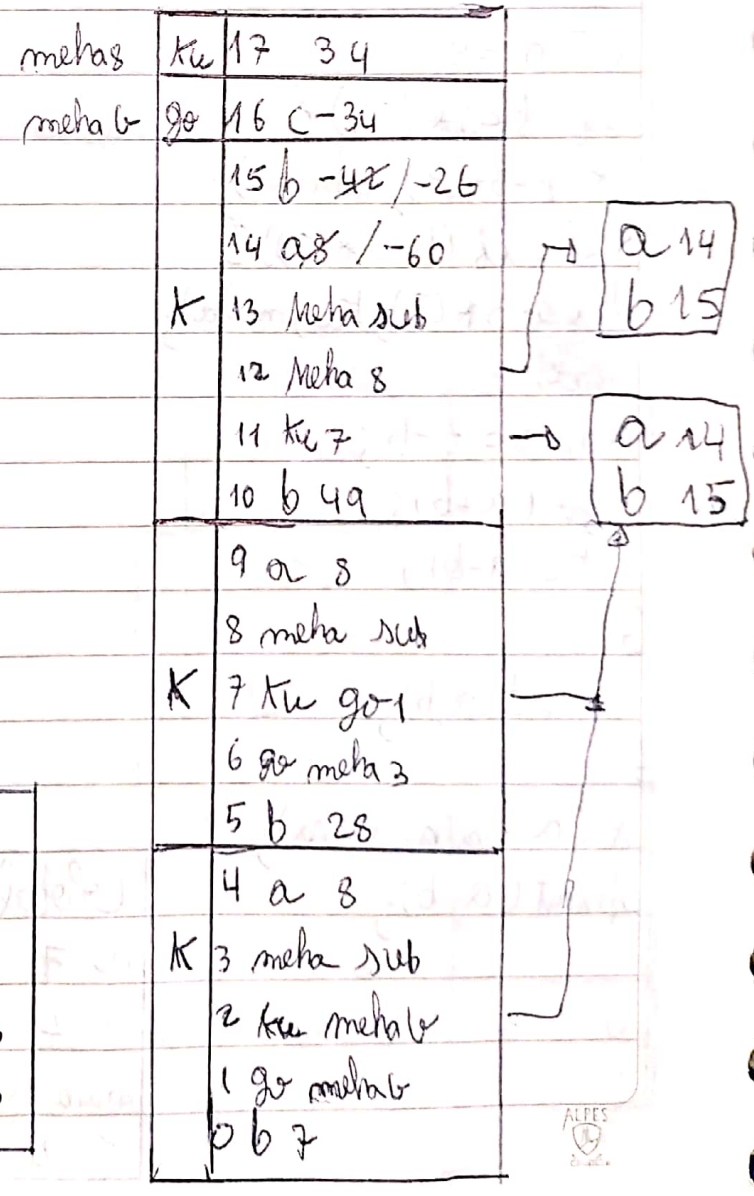
```
Int a=3, b=2;
sub meha(int c) {
    b:= a+c;
}

sub t(int b, sub go, sub ku) {
  sub meha(int c) {
     a:= b-c;
  }
  int a=8
  if (b<3*(7)) {
   t(b+3*(7), meha, go);
  } else if (b<6*(7)) {
   t(b+3*(7), ku, meha);
  } else {
   int b = 7-b;
   go(a+b);
   ku(a-b);
  }
   print(a,b);
}
t(a, meha, meha);
 print(a,b);
```

Imprime

-60	49
8	28
8	7
7	2

Global	
a	7
b	2
meha	sub
t	sub



d) Alcance dinamico y asociación superficial

```
Int a=7, b=2;
sub meha(int c){
  b:=a+c;
}

sub k(int b, sub go, sub ku){
  sub meha(int c){
    a:=b-c;
  }
  int a=8
  if (b<3*(7)){
   k(b+3*(7), meha, go);
  } else if (b<6*(7)){
  k(b+3*(7), ku, meha);
  } else {
  int b=7-b;
   go(a+b);
   ku(a-b);
  }
   print(a,b);
}

k(a, meha, meha);
print(a, b);
```

Imprime	
-60	49
8	28
8	7
7	2

Global	
a	7
b	2
meha	sub
k	sub

meha8	ku	17 c 34
meha6	go	16 c -34
		15 b ~~-42~~ / -26
		14 a ~~8~~ / -60
	k	13 meha sub
		12 ku meha8
		11 ~~go~~ ku 7
		10 b 49
		9 a 8
		8 meha sub
	k	7 ku go1
		6 go meha3
		5 b 28
		4 a 8
	k	3 meha sub
		2 ku meha6
		1 go meha6
		0 b 7

a	14
b	15

a	14
b	15