for $a in (3,4) return
for $b in (10,11) return   b.indx = rett utenfor b
(hei, for $c in ($a, 11) return
($c, "yes")

fasit:

a.numb	a.indx	b.numb	b.indx	c.numb	c.indx	value
1	1	1	1			hei
1	2	1	2	1	1	3
1	3	1	3	1	2	yes
1	4	1	4	2	1	11
1	5	1	5	2	2	yes
1	6	2	1			hei
1	7	2	2	1	1	3
1	8	2	3	1	2	yes
1	9	2	4	2	1	11
1	10	2	5	2	2	yes
2	11	1	1			hei
2	12	1	2	1	1	4
2	13	1	3	1	2	yes
2	14	1	4	2	1	11
2	15	1	5	2	2	yes
2	16	2	1			hei
2	17	2	2	1	1	4
2	18	2	3	1	2	yes
2	19	2	4	2	1	11
2	20	2	5	2	2	yes

($a,11) =

indx	value	anumb
1	3	1
1	4	2
2	11	1
2	11	2

| cnumb = indx!!
V

($c, "yes") =

indx	cnumb	anumb	value
1	1	1	3
1	1	2	4
1	2	1	11
1	2	2	11
2	1	1	yes
2	1	2	yes
2	2	1	yes
2	2	2	yes

|
V

"sortby anumb,cnumb, indx -> new index pr anumb

indx (new)	indx	cnumb	anumb	value
1	1	1	1	3
2	2	1	1	yes
3	1	2	1	11
4	2	2	1	yes
1	1	1	2	4
2	2	1	2	yes
3	1	2	2	11
4	2	2	2	yes

|

V

(hei, for.... Etc) =   (nesten.. Mangler riktig indx..)

suprindx	indx	anumb	value
1	0	1	hei
1	0	2	hei
2	1	1	3
2	2	1	yes
2	3	1	11
2	4	1	yes
2	1	2	4
2	2	2	yes
2	3	2	11
2	4	2	yes

|
V

sort by a.numb, supr, indx -> new index pr anumb

indx(new)	suprindx	indx	anumb	value
1	1	0	1	hei
2	2	1	1	3
3	2	2	1	yes
4	2	3	1	11
5	2	4	1	yes
1	1	0	2	hei
2	2	1	2	4
3	2	2	2	yes
4	2	3	2	11
5	2	4	2	yes

|------ -------->

innside av b-forløkke:

b.numb	indx	anumb	value
1	1	1	hei
1	2	1	3
1	3	1	yes
1	4	1	11
1	5	1	yes
1	1	2	hei
1	2	2	4
1	3	2	yes
1	4	2	11
1	5	2	yes
2	1	1	hei
2	2	1	3
2	3	1	yes
2	4	1	11
2	5	1	yes
2	1	2	hei
2	2	2	4
2	3	2	yes
2	4	2	11
2	5	2	yes

_____ _____ _____ _____ _____ _____ _____ J
V

utside av b.forløkke:
sortby anumb, b.numb, indx -> new indx pr anumb

indx(new)	b.numb	indx	anumb	value
1	1	1	1	hei
2	1	2	1	3
3	1	3	1	yes
4	1	4	1	11
5	1	5	1	yes
6	2	1	1	hei
7	2	2	1	3
8	2	3	1	yes
9	2	4	1	11
10	2	5	1	yes
1	1	1	2	hei
2	1	2	2	4
3	1	3	2	yes
4	1	4	2	11
5	1	5	2	yes
6	2	1	2	hei
7	2	2	2	4
8	2	3	2	yes
9	2	4	2	11
10	2	5	2	yes

------->

utsiden av a.forløkke:
sortby a.numb, indx -> new indx pr NULL

indx(new)	indx	anumb	value
1	1	1	hei
2	2	1	3
3	3	1	yes
4	4	1	11
5	5	1	yes
6	6	1	hei
7	7	1	3
8	8	1	yes
9	9	1	11
10	10	1	yes
11	1	2	hei
12	2	2	4
13	3	2	yes
14	4	2	11
15	5	2	yes
16	6	2	hei
17	7	2	4
18	8	2	yes
19	9	2	11
20	10	2	yes

for $a in (2,3) return
for $b in (/bok/side, $a) return
($b, "hei")

fasit:

anumb	a.indx	bnumb	b.index	in.index	value
1	1	1	1	1	**100**
1	2	2	2	2	**hei**
1	3	3	3	1	**200**
1	4	1	4	2	**hei**
1	5	2	5	1	**2**
1	6	3	6	2	**hei**
2	7	1	1	1	**100**
2	8	2	2	2	**hei**
2	9	3	3	1	**200**
2	10	1	4	2	**hei**
2	11	2	5	1	**3**
2	12	3	6	2	**hei**

```
<bok>
    <side>100 </side>
    <side>200 </side>
</bok>
```

$a=

anumb	value
1	2
2	3

/bok/side =   (tainted)

anumb	indx	value
1	1	100
1	2	200
2	1	100
2	2	200

union(
project(suprindx =1, /bok/side   ;project(suprindx = 2, indx = 0, $a)

supr	indx	anumb	value
1	1	1	100
1	2	1	200
1	1	2	100
1	2	2	200
2	0	1	2
2	0	2	3

---------------------->

(/bok/side, $a) =
sortby anumb, suprindx, indx -> new indx pr anumb

suprindx	indx	anumb	value	indx(new)
1	0	1	2	1
2	1	1	100	2
2	2	1	200	3
1	0	2	3	1
2	1	2	100	2
2	2	2	200	3

|
V bnumb = index, "hei" tainted ($a, $c)
($b, "hei")=

indx	bnumb	anumb	value
1	1	1	2
1	2	1	100 -------->
1	3	1	200
1	1	2	3
1	2	2	100
1	3	2	200
2	1	1	hei
2	2	1	hei
2	3	1	hei
2	1	2	hei
2	2	2	hei
2	3	2	hei

$b-løkke: orderby: anumb, bnumb, indx -> new index per anumb

indx(new)	indx	bnumb	anumb	value
1	1	1	1	2
2	2	1	1	hei
3	1	2	1	100
4	2	2	1	hei
5	1	3	1	200
6	2	3	1	hei
1	1	1	2	3
2	2	1	2	hei
3	1	2	2	100
4	2	2	2	hei
5	1	3	2	200
6	2	3	2	hei

|
J

V------------ ----------- ----------- ----------- ----------- ----------- -----------

$a-løkke: orderby: anumb, indx -> nde index pr NULL

indx(new)	indx	anumb	value
1	1	1	2
2	2	1	hei
3	3	1	100
4	4	1	hei
5	5	1	200
6	6	1	hei
7	1	2	3
8	2	2	hei
9	3	2	100
10	4	2	hei
11	5	2	200
12	6	2	hei

(Hvorfor pr anumb?-> fordi den er over ?)