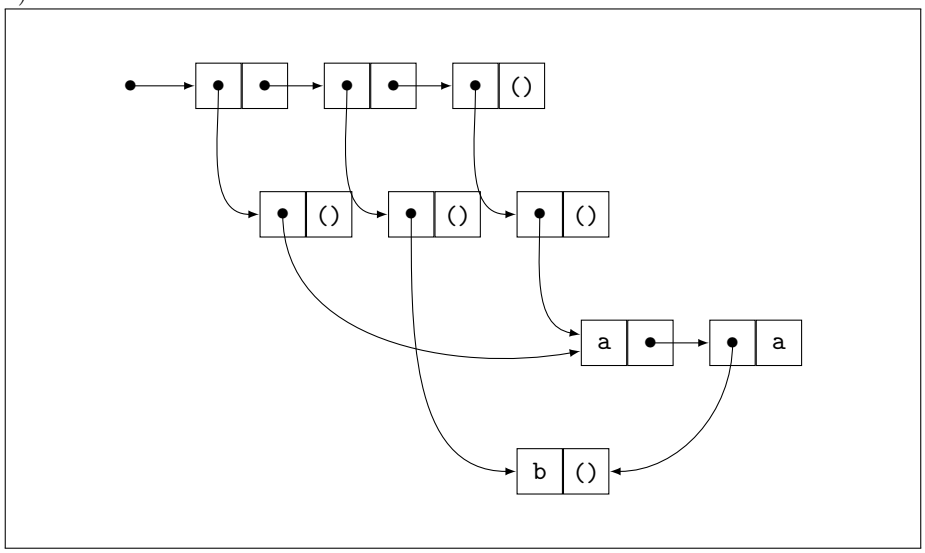
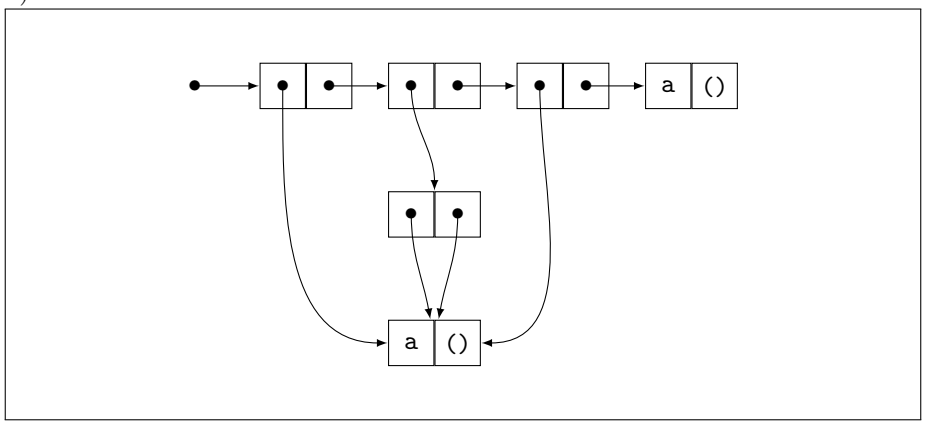
Zadání Napište výraz, jehož vyhodnocením bude hierarchická struktura nakreslená na obrázku.

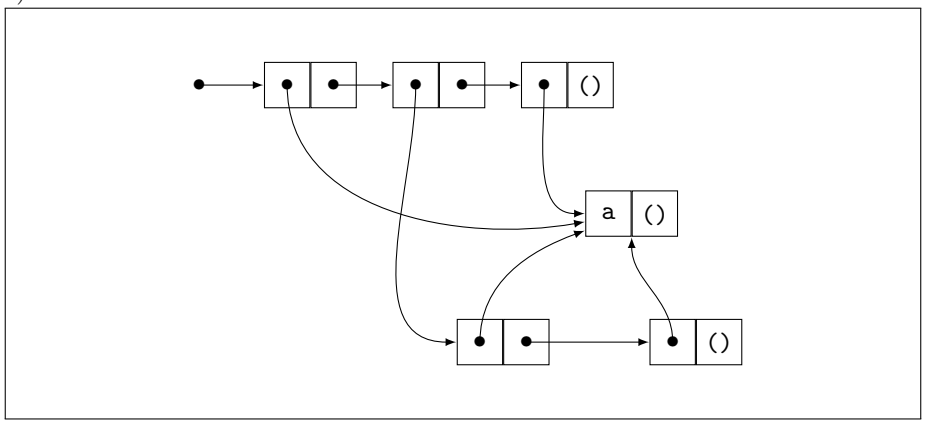
a)



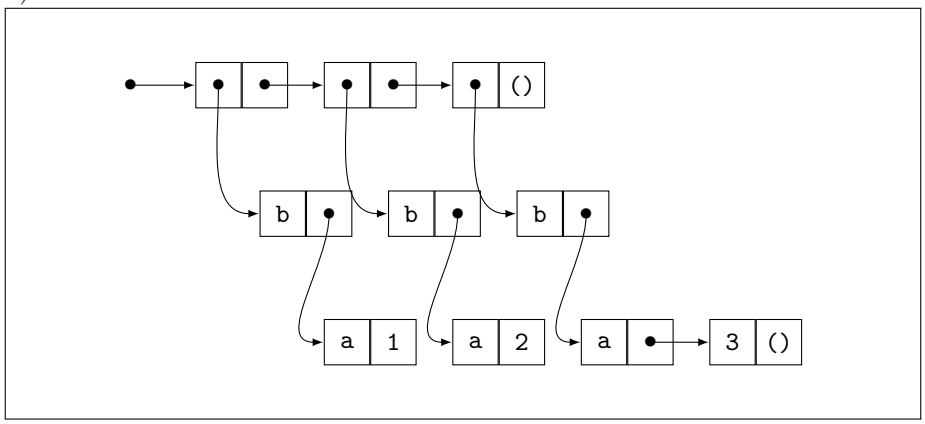
b)



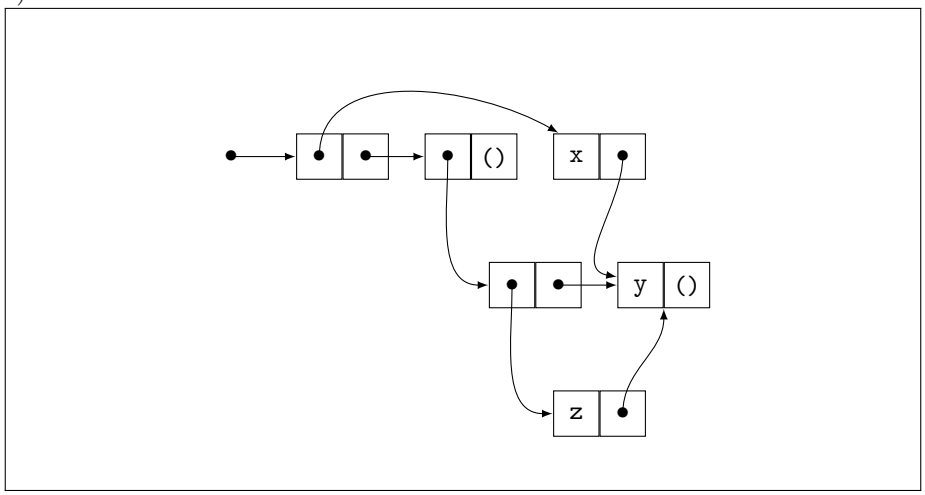
c)



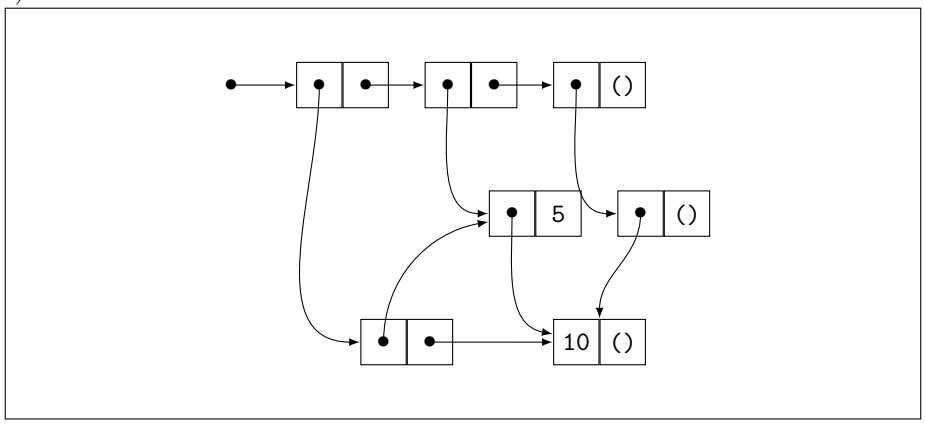
d)



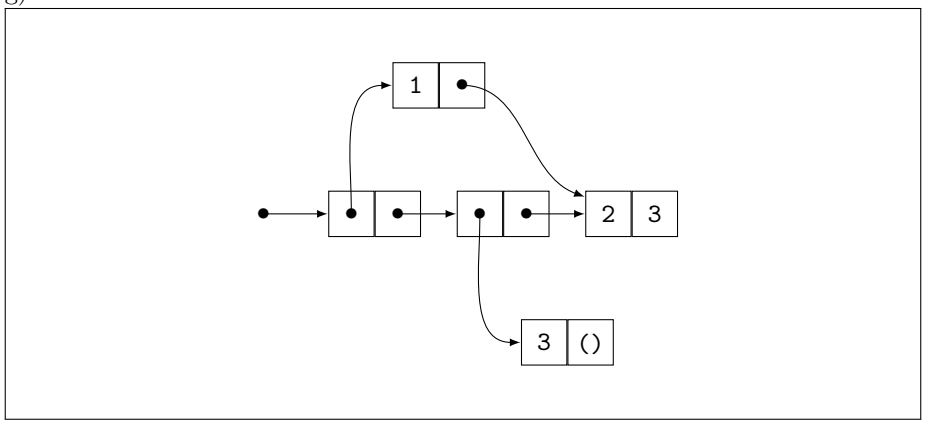
e)



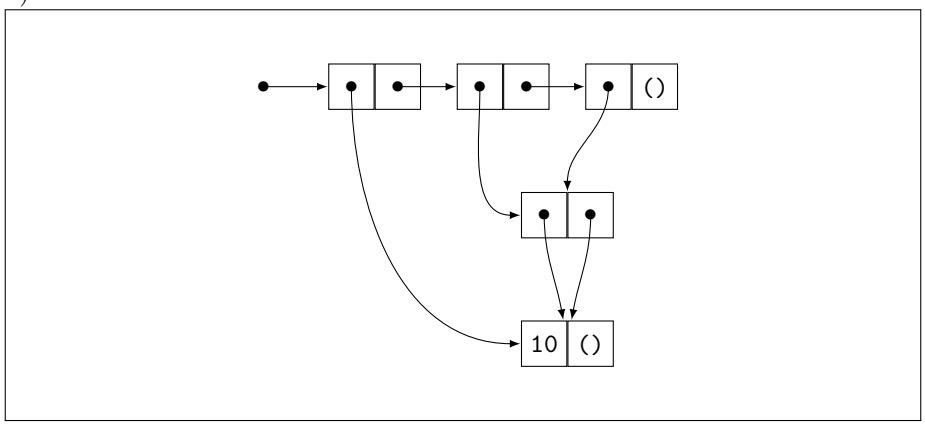
f)



g)



h)



Poznámka: Toto jsou řešení úkolů v první várce.

Řešení:

a)
```
(let* ((x '(b))
       (y `(a ,x . a))
       (a1 (list y))
       (a2 (list x)))
  (list a1 a2 a1))
```

b)
```
(let* ((a '(a))
       (b (cons a a)))
  (list a b a 'a))
```

c)
```
(let* ((a '(a))
       (b (list a a)))
  (list a b a))
```

d)
```
(let* ((b1 '(b a . 1))
       (b2 '(b a . 2))
       (b3 '(b a 3)))
  (list b1 b2 b3))
```

e)
```
(let* ((y '(y))
       (z (cons 'z y))
       (x (cons 'x y))
       (a (cons z y)))
  (list x a))
```

f)
```
(let* ((s10 '(10))
       (ss10 (list s10))
       (ps105 (cons s10 5))
       (p (cons ps105 s10)))
  (list p ps105 ss10))
```

g)
```
(let* ((p23 (cons 2 3))
       (p (cons (list 3) p23)))
  (cons (cons 1 p23) p))
```

h)
```
(let* ((s10 '(10))
       (p (cons s10 s10)))
  (list s10 p p))
```

DODELAT: vysvetleni