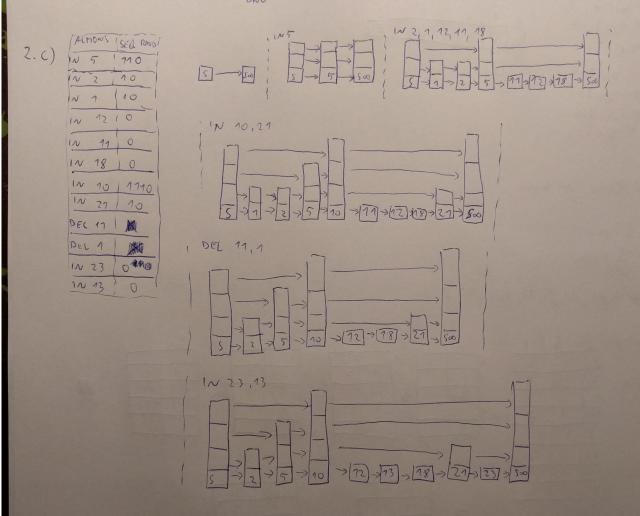


2.B) PSEUDO KODA PRILOTENA NA DAU



```
def findPlaceToInsert(key, h):
 3
        element = sentinel[h]
         if key == element:
 4
 5
            return false
 6
         if h == 1
 7
            sentinel.next = key #add key
 8
            return true
 9
10
         if key > element:
11
             isBigger = element.next.findPlaceToInsert(h, key) #pomaknemo se v element in vstavljamo od njega naprej
12
            if not isBigger:
13
                h -= 1 #zmanjsamo visino
14
15
         else #key je manjši
16
            return false #vrne prejšnemu nodu false
17
18
     def insert(key):
         if !(findPlaceToInsert(key, MAX_HEIGHT))
19
20
            return false; #če nemormo ustavt return false
21
22
         height = 1
23
         while (random.uniform(0, 1)):
24
            height += 1
25
26
         ##create new object
27
         object = [None] * height
28
         object[0] = key
29
30
         #check heights
31
        heightDiff = 0
32
         if height > MAX_HEIGHT:
33
            heightDiff = height - MAX_HEIGHT
34
35
             for i in range(heightDiff): #as much as height diff is... rebuild sentinels pointers
36
                 sentinel[len(sentinel)-1 + i].ptr = object[len(sentinel)-1 + i] #nastav pointer sentinela na object arr.
37
                 object[len(sentinel)-1 + i].ptr = sentinelInf[len(sentinel)-1 + i]
38
            MAX HEIGHT = height
39
40
         #prevezi vmesne node
41
         for i in range(height - MAX_HEIGHT) ##prve node preverš če bi pointerji lah padl na object namest na sentinelInf
42
            if sentinel[i].ptr = sentinelInf[i]:
43
                 sentinel[i].ptr = object[i]
44
45
         return true;
46
47
    MAX_HEIGHT = 1
48
49
    sentinel = [None] * MAX HEIGHT
50
    sentinelInf = [None] * MAX HEIGHT
51
     for i in range(len(sentinel)): #init
52
         sentinel[i].ptr = sentinelInf[i]
53
54
    insert(3)
55
    insert(5)
56 insert (3)
```