```
Thee-Successor (n)

if n. night \neq None

then return (Tree-Minimum (n. night))

n' \leftarrow n. parent evaluates to true only at anot

while n' \neq N none and n = n'. sight
```

 $\gamma \in \gamma'$

remen n'

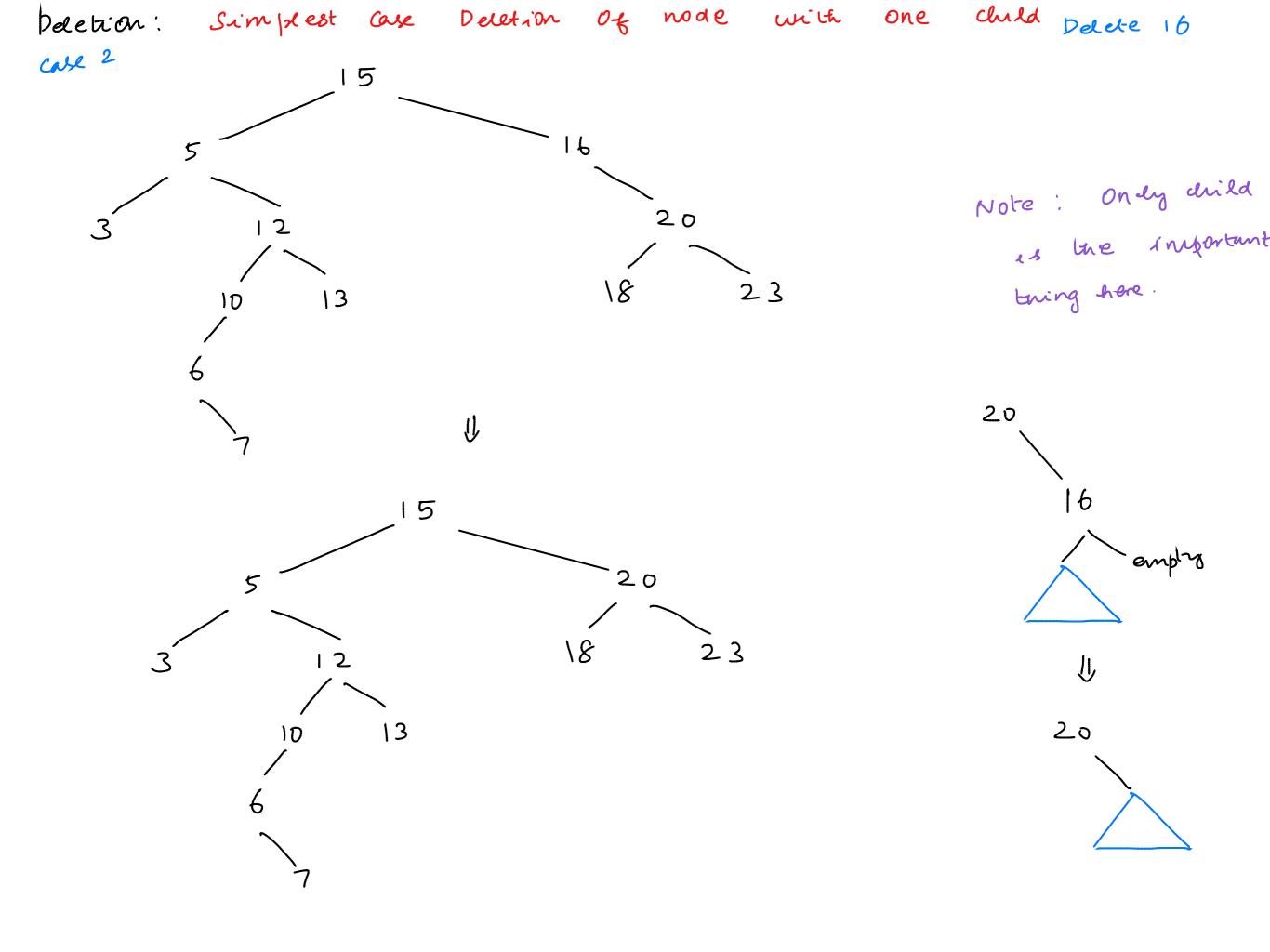
n' < n. parent

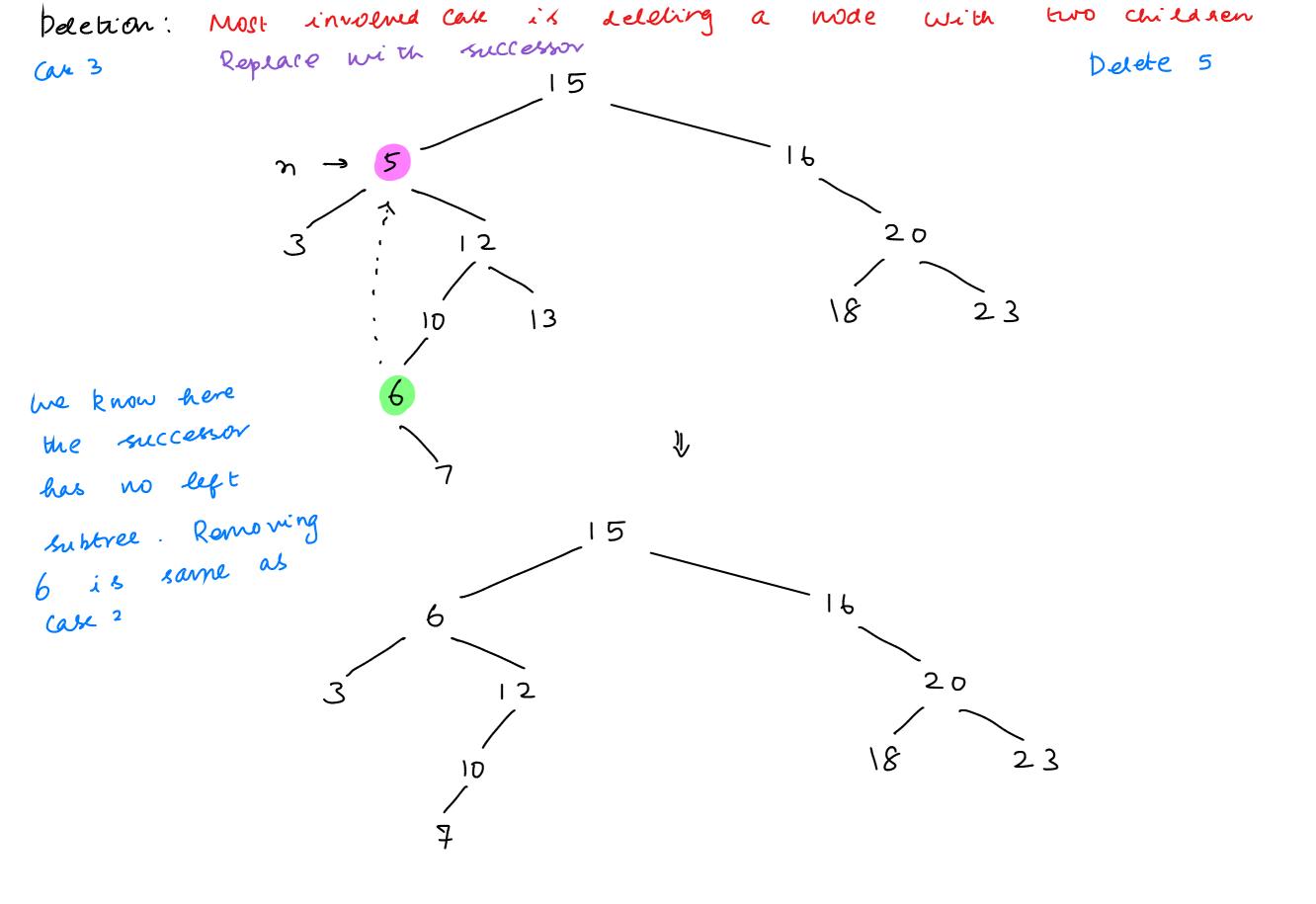
Z climb up the

ue find a

eige subtree

Deletion: Simplest case Deletion at leag Delete 13 Cate 1 ${\color{red} \mathbb{1}}$





Deletion: Most involved case is deleting a mode with two children

Car 3

Repeace with paraecessor

A 4

88

17

8 2 9 7

29

29

54

82

93

Deletion: Most involved case is deleting a mode with two children

(as 3 Repeace with passecoggs

A 4

82

65

97

29

```
Tree-Delete (T, node)
  if node left = None or node rigat = None
           then node-to-hermone - node
                  node-to-nemore - tree-Successor (node)
                                                             has no
                                                              left child
           else
   if node-to-remove. left + None
           then repeating-node < node-to-remove. left
            elle repeacing-node = mode-to-remove. right
            then expeasing-node parent < node-10-remove parent
           repeating-node + None
           node - to a emove : parent = None
                   T. noot - repearing - node
     18
                   if node-to-remove = node-to-remove. parent. left
                    then node-to-remove.parent.left < replacing-node
             evse
                     else node-to-remove.parent. enight = replacing-node
```

then node key = node - to - remove key node value = node - to - remove value

return node-to-remove