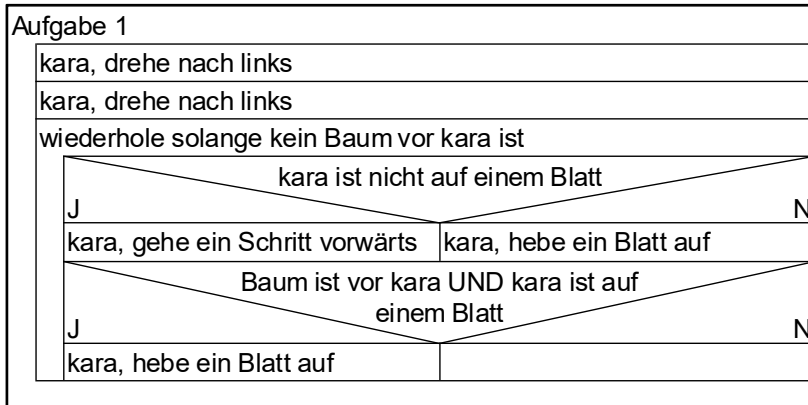


L1_5.2 Lösungen zu Vertiefungsaufgaben Kontrollstrukturen

Aufgabe 1

Struktogramm



(L1_5_2_A1_Vertiefung.stg)

Programmcode

```

10 kara.turnLeft()
11 kara.turnLeft()
12 while not kara.treeFront():
13     if not kara.onLeaf():
14         kara.move()
15     else:
16         kara.removeLeaf()
17 if kara.treeFront() and kara.onLeaf():
18     kara.removeLeaf()

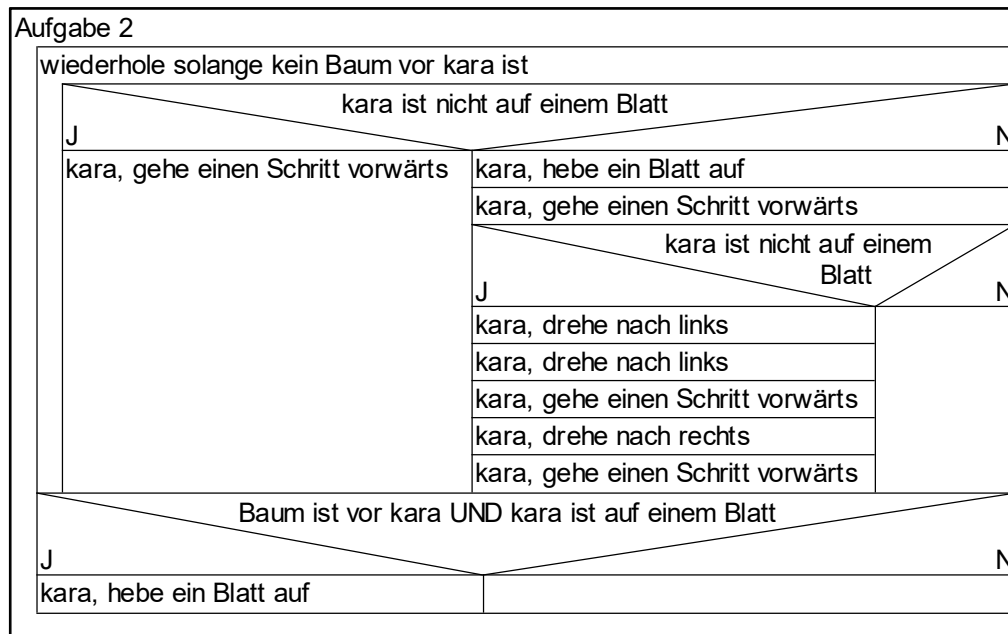
```

(L1_5_2_A1_Vertiefung.py)

Aufgabe 2

Struktogramm

Programmcode



(L1_5_2_A2_Vertiefung.stg)

Programmcode

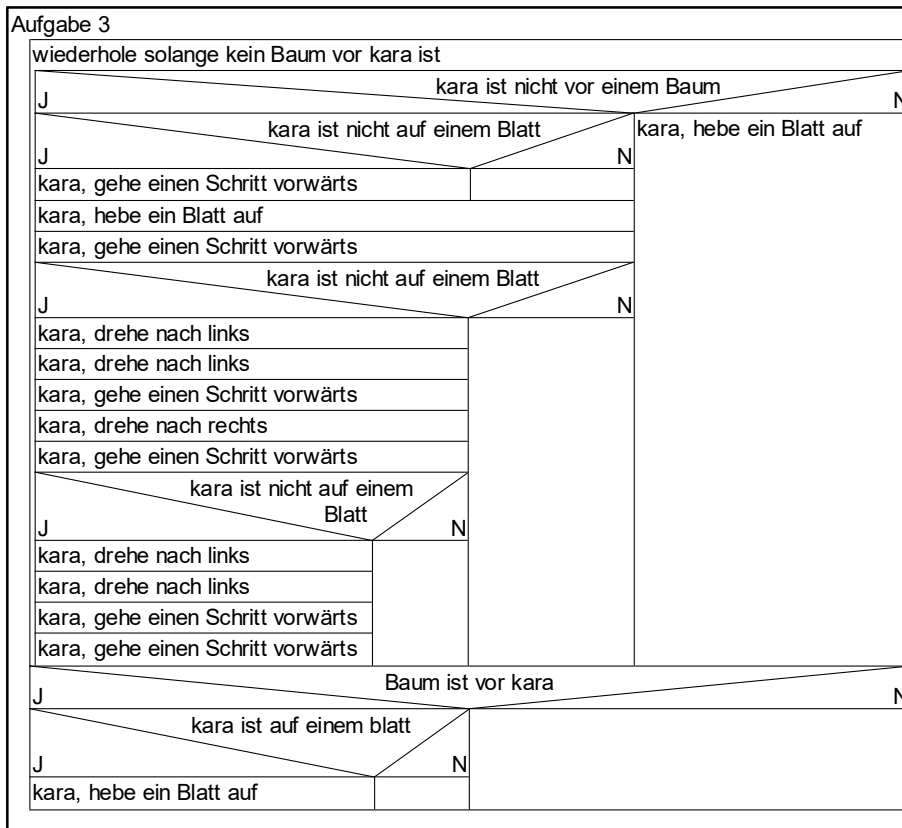
```

10 while not kara.treeFront():
11     if not kara.onLeaf():
12         kara.move()
13     else:
14         kara.removeLeaf()
15         kara.move()
16         if not kara.onLeaf():
17             kara.turnLeft()
18             kara.turnLeft()
19             kara.move()
20             kara.turnRight()
21             kara.move()
22 if kara.treeFront() and kara.onLeaf():
23     kara.removeLeaf()
  
```

(L1_5_2_A2_Vertiefung.py)

Aufgabe 3

Struktogramm



(L1_5_2_A3_Vertiefung.stg)

Programmcode

```

10 while not kara.treeFront():
11     if not kara.treeFront():
12         if not kara.onLeaf():
13             kara.move()
14             kara.removeLeaf()
15             kara.move()
16         if not kara.onLeaf():
17             kara.turnLeft()
18             kara.turnLeft()
19             kara.move()
20             kara.turnRight()
21             kara.move()
22         if not kara.onLeaf():
23             kara.turnLeft()
24             kara.turnLeft()
25             kara.move()
26             kara.move()
27     else:
28         kara.removeLeaf()
29 if kara.treeFront():
30     if kara.onLeaf():
31         kara.removeLeaf()

```

(L1_5_2_A3_Vertiefung.py)