

```

-- Testfaelle zu Aufgabenblatt 8

-- Testfaelle zu Aufgabenteilen 1 und 2

testall = and [b1_t1, b1_t2, b2_t1, b2_t2, b3_t1, b3_t2, b4_t1, b4_t2, b4_t3]

b1_a1 = (AMg ([("de","a","c","b")),([("de","a","c","b")),([("de","a","c","")),
([("de","a","","b"))]))
-- alle woerter ueber {a,b,c,d,e}*, die weder bc noch cb enthalten, und nicht mit
einem "a" enden

-- zustand 0 "keine gefahr"
-- zustand 1 "a ist am ende"
-- zustand 2 "Gefahr, cb zu generieren"
-- zustand 3 "Gefahr, bc zu generieren"

-- start: 0
-- end:    0,2,3

b1_t1 = isPostfix b1_a1 0 [0,2,3] "ab" == True
b1_t2 = isPostfix b1_a1 0 [0,2,3] "aba" == False

-- Beachten Sie, dass das Resultat i.a. nicht eindeutig festgelegt ist
b2_t1 = givePrefix b1_a1 0 [0,2,3] "ab" == (Just "a")
b2_t2 = givePrefix b1_a1 0 [0,2,3] "aba" == Nothing

-- Testfaelle zu Aufgabenteil 3

t2a_t1 = isValid [1, 50, 30, 10, 40, 20, 3] == True
t2a_t2 = isValid [2, 50, 30, 10, 40, 20, 3] == False
t2a_t3 = isValid [1, 60, 30, 10, 40, 20, 3] == False

t2b_t1 = computeVisibility [50, 30, 10, 40, 20] == [1, 50, 30, 10, 40, 20, 3]
t2b_t2 = computeVisibility [10,20..50] == 5:[10,20..50]++[1]

-- Beachten Sie, dass das Resultat i.a. nicht eindeutig festgelegt ist
t2c_t1 = buildSkyscrapers 5 1 5 == Just [1,50,40,30,20,10,5]
t2c_t2 = buildSkyscrapers 5 5 5 == Nothing

t2d_t1 = noOfSkyscraperLines 4 2 2 == 6
t2d_t2 = noOfSkyscraperLines 5 5 5 == 0

t2e_t1 = allSkyscraperLines 5 1 5 == [[1,50,40,30,20,10,5]]
t2e_t2 = allSkyscraperLines 4 2 2 == [[2,10,40,20,30,2],[2,20,10,40,30,2],
[2,20,40,10,30,2],[2,30,10,40,20,2],[2,30,20,40,10,2],[2,30,40,10,20,2]]

```