GTI Übungsblatt 8
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Übung: Mi 16-18

Max Springenberg, 177792

8.1

8.1.1

(i)

$f(1) =$
$f(2) = 4$

(ii)

$f_P(n) = 2^n$, für $n \geq 2$

8.1.2

```
 1:   x_3 := 0;
 2:   x_4 := 1;
 3:   x_5 := x_1;
 4:   x_6 := x_2;
 5:   IF x_1 = 0 THEN GOTO 9;
 6:   x_1 := x_1 - 1;
 7:   x_3 := x_3 + 1;
 8:   IF x_4 = 1 THEN GOTO 5;
 9:   IF x_3 = 0 THEN GOTO 15;
10:   IF x_3 = 0 THEN GOTO 20;
11:   IF x_2 = 0 THEN GOTO 18;
12:   x_2 := x_2 - 1;
13:   x_3 := x_3 - 1;
14:   IF x_4 = 1 THEN GOTO 10;
15:   IF x_2 = 0 THEN GOTO 20;
16:   x_2 := x_2 - 1;
17:   IF x_4 = 1 THEN GOTO 15;
18:   x_1 := x_5;
19:   IF x_4 = 1 THEN GOTO 21;
20:   x_1 := x_6;
21:   HALT
```

8.2

8.2.1

8.2.2

8.3

8.3.1

8.3.2