ADIP Blatt 1

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1 Primzahlfakoriserung

1.1 Pseudocode

```
1    def primfaktoren(n):
2      if n == 1: return [1]
3      primeFactors = []
4
5      for p in list(2..sqrt(n))
6        if isPrime(p):
7        while n % p == 0:
8          primeFactors.append(p)
9          n /= p
10
11     return primeFactors
12
13   def isPrime(n):
14       for(i = 2; i <= n / 2; ++i)
15           if(n % i == 0)
16               return False
17       return True
```

Anbei: 1-Flussdiagramm + Code von 2 & 3