

```
1: procedure ANALYZE(profiles)
2:   for profile in profiles do
3:      $r \leftarrow a \bmod b$ 
4:     while  $r \neq 0$  do
5:        $a \leftarrow b$ 
6:        $b \leftarrow r$ 
7:        $r \leftarrow a \bmod b$ 
8:     end while
9:     return  $b$ 
10:  end for
11: end procedure
```