

```
> L := [2, 3, 2, 5, 7, 2, 3, 11, 13, 2, 17, 19, 23, 5, 3, 29, 31, 2, 37, 41, 43, 47, 49, 53, 59, 61, 2, 67, 71, 73, 79, 3, 83, 89, 97];
```

$$L := [2, 3, 2, 5, 7, 2, 3, 11, 13, 2, 17, 19, 23, 5, 3, 29, 31, 2, 37, 41, 43, 47, 49, 53, 59, 61, 2, 67, 71, 73, 79, 3, 83, 89, 97] \quad (1)$$

```
> a := 3;
```

$$a := 3 \quad (2)$$

```
> N := 500657;
```

$$N := 500657 \quad (3)$$

```
> for num in L do b := anum mod N;
if num mod 5 = 0 then g := igcd(b - 1, N);
if g > 1 then print(b, num, g);
break;
fi fi;
a := b;
od;
```

$$\begin{aligned} b &:= 479180 \\ a &:= 479180 \\ b &:= 219063 \\ a &:= 219063 \\ b &:= 123862 \\ a &:= 123862 \\ b &:= 391073 \\ 391073, 5, 101 \end{aligned} \quad (4)$$

```
>
```