Start with 2, keep doing p_1*...*p_r + 1:
```
> 2+1;
```
$$3 \tag{1}$$

```
> 2*3+1;
```
$$7 \tag{2}$$

```
> 2*3*7+1;
```
$$43 \tag{3}$$

```
> 2*3*7*43+1;
```
$$1807 \tag{4}$$

```
> ifactor(1807);
```
$$(13)\,(139) \tag{5}$$

So not all numbers in the "Euclid sequence" are prime.

See (google): FRACTRAN, Sieve of Eratosthenes