

Exponentiation rapide :

begin

```
  for  $i := 1$  to 10 step 1 do
    afficher( $\text{exp}(2, i)$ );
    newline() od
```

where

funct  $\text{exp}(x, n) \equiv$

```
   $\lceil z := 1;$ 
```

```
  while  $n \neq 0$  do
```

```
    while pair( $n$ ) do
```

```
       $n := n/2; x := x * x$  od;
```

```
     $n := n - 1; z := z * x$  od;
```

```
     $z \rfloor.$ 
```

end