

```
integer  $i, j, n$ ;    real array  $(a_i)_{0:n}, (x_i)_{0:n}$   
for  $i = 0$  to  $n$  do  
     $a_i \leftarrow f(x_i)$   
end for  
for  $j = 1$  to  $n$  do  
    for  $i = n$  to  $j$  step  $-1$  do  
         $a_i \leftarrow (a_i - a_{i-1}) / (x_i - x_{i-j})$   
    end for  
end for
```