



$$\int_a^b x^a y^b$$

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**Algorithm 2** An algorithm with caption

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```

while  $N \neq 0$  do
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
   $N \leftarrow N - 1$ 
end while

```

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## 1 Section