
Algorithm 1 An algorithm with caption

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

Algorithm 2 An algorithm with caption

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while  $N \neq 0$  do
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end while
```

$$\frac{n!}{k!(n-k)!} = \binom{n}{k}$$
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1 Section

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Figure 1: State space diagram showing paths a_1 , a_2 , and a_3 starting from the origin (0,0) and ending at (3,3). The paths are defined by the sequence of moves (up, down, left, right) indicated by the arrows. The red path a_3 is the shortest path, consisting of 6 moves. The blue path a_2 and green path a_1 are longer, consisting of 7 moves each.