

```

MoveTower[1, a_, b_, c_] := {Move[1, a, c]};
MoveTower[n_, a_, b_, c_] := Join[
  MoveTower[n-1, a, c, b],
  {Move[n, a, c]},
  MoveTower[n-1, b, a, c]
]

```

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MoveTower[8, 1, 2, 3]

```

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{Move[1, 1, 2], Move[2, 1, 3], Move[1, 2, 3], Move[3, 1, 2], Move[1, 3, 1], Move[2, 3, 2],
  Move[1, 1, 2], Move[4, 1, 3], Move[1, 2, 3], Move[2, 2, 1], Move[1, 3, 1], Move[3, 2, 3],
  Move[1, 1, 2], Move[2, 1, 3], Move[1, 2, 3], Move[5, 1, 2], Move[1, 3, 1], Move[2, 3, 2],
  Move[1, 1, 2], Move[3, 3, 1], Move[1, 2, 3], Move[2, 2, 1], Move[1, 3, 1],
  Move[4, 3, 2], Move[1, 1, 2], Move[2, 1, 3], Move[1, 2, 3], Move[3, 1, 2],
  Move[1, 3, 1], Move[2, 3, 2], Move[1, 1, 2], Move[6, 1, 3], Move[1, 2, 3],
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Move[1, 1, 2], Move[2, 1, 3], Move[1, 2, 3], Move[4, 2, 1], Move[1, 3, 1],  
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Move[1, 3, 1], Move[3, 2, 3], Move[1, 1, 2], Move[2, 1, 3], Move[1, 2, 3]}