```
Try a few moves:
  +----+----+----+----+----+----+----+----+
8 | bR | bN | bB | bQ | bK | bB | bN | bR |
  +----+----+----+----+----+----+----+----+
7 | bP | bP | bP | bP | bP | bP | bP | bP |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 | wP | wP | wP | wP | wP | wP | wP | wP |
  +----+----+----+----+----+----+----+----+
1 | wR | wN | wB | wQ | wK | wB | wN | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h


e2-e4
  +----+----+----+----+----+----+----+----+
8 | bR | bN | bB | bQ | bK | bB | bN | bR |
  +----+----+----+----+----+----+----+----+
7 | bP | bP | bP | bP | bP | bP | bP | bP |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    | wP |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 | wP | wP | wP | wP |    | wP | wP | wP |
  +----+----+----+----+----+----+----+----+
1 | wR | wN | wB | wQ | wK | wB | wN | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h


b7-b6
  +----+----+----+----+----+----+----+----+
8 | bR | bN | bB | bQ | bK | bB | bN | bR |
  +----+----+----+----+----+----+----+----+
7 | bP |    | bP | bP | bP | bP | bP | bP |
  +----+----+----+----+----+----+----+----+
6 |    | bP |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    | wP |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 | wP | wP | wP | wP |    | wP | wP | wP |
  +----+----+----+----+----+----+----+----+
1 | wR | wN | wB | wQ | wK | wB | wN | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h


wNg1-f3
  +----+----+----+----+----+----+----+----+
8 | bR | bN | bB | bQ | bK | bB | bN | bR |
```

```
  +----+----+----+----+----+----+----+----+
7 | bP |    | bP | bP | bP | bP | bP | bP |
  +----+----+----+----+----+----+----+----+
6 |    | bP |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    | wP |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    | wN |    |    |
  +----+----+----+----+----+----+----+----+
2 | wP | wP | wP | wP |    | wP | wP | wP |
  +----+----+----+----+----+----+----+----+
1 | wR | wN | wB | wQ | wK | wB |    | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h
```

bBc8-b7
```
  +----+----+----+----+----+----+----+----+
8 | bR | bN |    | bQ | bK | bB | bN | bR |
  +----+----+----+----+----+----+----+----+
7 | bP | bB | bP | bP | bP | bP | bP | bP |
  +----+----+----+----+----+----+----+----+
6 |    | bP |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    | wP |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    | wN |    |    |
  +----+----+----+----+----+----+----+----+
2 | wP | wP | wP | wP |    | wP | wP | wP |
  +----+----+----+----+----+----+----+----+
1 | wR | wN | wB | wQ | wK | wB |    | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h
```

d2-d3
```
  +----+----+----+----+----+----+----+----+
8 | bR | bN |    | bQ | bK | bB | bN | bR |
  +----+----+----+----+----+----+----+----+
7 | bP | bB | bP | bP | bP | bP | bP | bP |
  +----+----+----+----+----+----+----+----+
6 |    | bP |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    | wP |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    | wP |    | wN |    |    |
  +----+----+----+----+----+----+----+----+
2 | wP | wP | wP |    |    | wP | wP | wP |
  +----+----+----+----+----+----+----+----+
1 | wR | wN | wB | wQ | wK | wB |    | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h
```

bBb7xe4
```
  +----+----+----+----+----+----+----+----+
8 | bR | bN |    | bQ | bK | bB | bN | bR |
  +----+----+----+----+----+----+----+----+
7 | bP |    |    | bP | bP | bP | bP | bP |
  +----+----+----+----+----+----+----+----+
```

```
6 |    | bP |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    | bB |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    | wP |    | wN |    |    |
  +----+----+----+----+----+----+----+----+
2 | wP | wP | wP |    |    | wP | wP | wP |
  +----+----+----+----+----+----+----+----+
1 | wR | wN | wB | wQ | wK | wB |    | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h
```

d3xe4
```
  +----+----+----+----+----+----+----+----+
8 | bR | bN |    | bQ | bK | bB | bN | bR |
  +----+----+----+----+----+----+----+----+
7 | bP |    | bP | bP | bP | bP | bP | bP |
  +----+----+----+----+----+----+----+----+
6 |    | bP |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    | wP |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    | wN |    |    |
  +----+----+----+----+----+----+----+----+
2 | wP | wP | wP |    |    | wP | wP | wP |
  +----+----+----+----+----+----+----+----+
1 | wR | wN | wB | wQ | wK | wB |    | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h
```

Reset board
```
  +----+----+----+----+----+----+----+----+
8 | bR | bN | bB | bQ | bK | bB | bN | bR |
  +----+----+----+----+----+----+----+----+
7 | bP | bP | bP | bP | bP | bP | bP | bP |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 | wP | wP | wP | wP | wP | wP | wP | wP |
  +----+----+----+----+----+----+----+----+
1 | wR | wN | wB | wQ | wK | wB | wN | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h
```

Test En Passant
```
  +----+----+----+----+----+----+----+----+
8 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
7 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
```

```
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 | wP | bP |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
1 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h
```

b4xa3

```
  +----+----+----+----+----+----+----+----+
8 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
7 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 | bP |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
1 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h
```

Test promotion

```
  +----+----+----+----+----+----+----+----+
8 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
7 |    | wP |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
1 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h
```

b7-b8wQ

```
  +----+----+----+----+----+----+----+----+
8 |    | wQ |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
7 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
```

```
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
1 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
     a    b    c    d    e    f    g    h


--------------------

Test Castle: 0-0
  +----+----+----+----+----+----+----+----+
8 | bR |    |    | bK |    |    | bR |
  +----+----+----+----+----+----+----+----+
7 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
1 | wR |    |    | wK |    |    | wR |
  +----+----+----+----+----+----+----+----+
     a    b    c    d    e    f    g    h


0-0
  +----+----+----+----+----+----+----+----+
8 | bR |    |    | bK |    |    | bR |
  +----+----+----+----+----+----+----+----+
7 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
1 | wR |    |    |    | wR | wK |    |
  +----+----+----+----+----+----+----+----+
     a    b    c    d    e    f    g    h


Can white castle: false
Can black castle: true


0-0
  +----+----+----+----+----+----+----+----+
8 | bR |    |    |    | bR | bK |    |
  +----+----+----+----+----+----+----+----+
7 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
```

```
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
1 | wR |    |    |    |    | wR | wK |    |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h


Can white castle: false
Can black castle: false


Test Castle: 0-0-0
  +----+----+----+----+----+----+----+----+
8 | bR |    |    |    | bK |    |    | bR |
  +----+----+----+----+----+----+----+----+
7 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
1 | wR |    |    | wK |    |    | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h


0-0-0
  +----+----+----+----+----+----+----+----+
8 | bR |    |    |    | bK |    |    | bR |
  +----+----+----+----+----+----+----+----+
7 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
  +----+----+----+----+----+----+----+----+
1 |    |    | wK | wR |    |    |    | wR |
  +----+----+----+----+----+----+----+----+
    a    b    c    d    e    f    g    h


Can white castle: false
Can black castle: true


0-0-0
  +----+----+----+----+----+----+----+----+
```

```
8 |      |      | bK  | bR  |      |      |      | bR  |
  +----+----+----+----+----+----+----+----+
7 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
6 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
5 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
4 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
3 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
2 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
1 |      |      | wK  | wR  |      |      |      | wR  |
  +----+----+----+----+----+----+----+----+
    a      b      c      d      e      f      g      h
```

Can white castle: false
Can black castle: false

Test move with king
```
  +----+----+----+----+----+----+----+----+
8 | bR  |      |      |      | bK  |      |      | bR  |
  +----+----+----+----+----+----+----+----+
7 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
6 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
5 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
4 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
3 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
2 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
1 | wR  |      |      |      | wK  |      |      | wR  |
  +----+----+----+----+----+----+----+----+
    a      b      c      d      e      f      g      h
```


wKe1-e2
```
  +----+----+----+----+----+----+----+----+
8 | bR  |      |      |      | bK  |      |      | bR  |
  +----+----+----+----+----+----+----+----+
7 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
6 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
5 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
4 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
3 |      |      |      |      |      |      |      |      |
  +----+----+----+----+----+----+----+----+
2 |      |      |      |      | wK  |      |      |      |
  +----+----+----+----+----+----+----+----+
1 | wR  |      |      |      |      |      |      | wR  |
  +----+----+----+----+----+----+----+----+
    a      b      c      d      e      f      g      h
```


Can white castle: false

Can black castle: true

Test move with rooks

```
   +----+----+----+----+----+----+----+----+
8  | bR |    |    |    | bK |    |    | bR |
   +----+----+----+----+----+----+----+----+
7  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
6  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
5  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
4  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
3  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
2  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
1  | wR |    |    |    | wK |    |    | wR |
   +----+----+----+----+----+----+----+----+
     a    b    c    d    e    f    g    h
```


wRa1xa8

```
   +----+----+----+----+----+----+----+----+
8  | wR |    |    |    | bK |    |    | bR |
   +----+----+----+----+----+----+----+----+
7  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
6  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
5  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
4  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
3  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
2  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
1  |    |    |    |    | wK |    |    | wR |
   +----+----+----+----+----+----+----+----+
     a    b    c    d    e    f    g    h
```


Can white castle: true
Can black castle: true

bKe8-f8

```
   +----+----+----+----+----+----+----+----+
8  | wR |    |    |    |    | bK |    | bR |
   +----+----+----+----+----+----+----+----+
7  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
6  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
5  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
4  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
3  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
2  |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
1  |    |    |    |    | wK |    |    | wR |
```

```
   +----+----+----+----+----+----+----+----+
     a    b    c    d    e    f    g    h
```

Can white castle: true
Can black castle: false

wRh1-h4
```
   +----+----+----+----+----+----+----+----+
8 | wR |    |    |    |    | bK |    | bR |
   +----+----+----+----+----+----+----+----+
7 |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
6 |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
5 |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
4 |    |    |    |    |    |    |    | wR |
   +----+----+----+----+----+----+----+----+
3 |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
2 |    |    |    |    |    |    |    |    |
   +----+----+----+----+----+----+----+----+
1 |    |    |    |    | wK |    |    |    |
   +----+----+----+----+----+----+----+----+
     a    b    c    d    e    f    g    h
```

Can white castle: false
Can black castle: false