

# Notakto

## Sample Input and Output (Bold font represents user input)

### Sample1. One board game

```
=====
Welcome to the Notakto, & .
    Total battle times: 0.
    Player  wins: 0.
    Player  wins: 0.
=====
    Select Command to Continue (PLAY / NAME / EXIT)
: NAME
=====
What's the name of Player 1? (no containing spaces)
: APPLE

What's the name of Player 2? (no containing spaces)
: BANANA
=====
Welcome to the Notakto, APPLE & BANANA.
    Total battle times: 0.
    Player APPLE wins: 0.
    Player BANANA wins: 0.
=====
    Select Command to Continue (PLAY / NAME / EXIT)
: PLAY
=====
What's your preferred size of board? ("0" for random)
Board (0 or 1-5): 1
=====
A
0 1 2
3 4 5
6 7 8
Player 1 "APPLE" (Power Remains: 2): A3
A
0 1 2
X 4 5
6 7 8
Player 2 "BANANA" (Power Remains: 2): A2
A
0 1 X
X 4 5
6 7 8
Player 1 "APPLE" (Power Remains: 2): A4
A
0 1 X
X X 5
6 7 8
Player 2 "BANANA" (Power Remains: 2): A8
A
```

```

0 1 X
X X 5
6 7 X
Player 1 "APPLE" (Power Remains: 2): A6
Every piece in the board was dead.
=====
Player2 BANANA wins.

```

## Sample2. Three boards game with SKILL

```

=====
Welcome to the Notakto, APPLE & BANANA.
  Total battle times: 0.
  Player APPLE wins: 0.
  Player BANANA wins: 0.
=====
  Select Command to Continue (PLAY / NAME / EXIT)
: PLAY
=====
What's your preferred size of board? ("0" for random)
Board (0 or 1-5): 3
=====
A      B      C
0 1 2  0 1 2  0 1 2
3 4 5  3 4 5  3 4 5
6 7 8  6 7 8  6 7 8
Player 1 "APPLE" (Power Remains: 2): C2
A      B      C
0 1 2  0 1 2  0 1 X
3 4 5  3 4 5  3 4 5
6 7 8  6 7 8  6 7 8
Player 2 "BANANA" (Power Remains: 2): B3
A      B      C
0 1 2  0 1 2  0 1 X
3 4 5  X 4 5  3 4 5
6 7 8  6 7 8  6 7 8
Player 1 "APPLE" (Power Remains: 2): B1
A      B      C
0 1 2  0 X 2  0 1 X
3 4 5  X 4 5  3 4 5
6 7 8  6 7 8  6 7 8
Player 2 "BANANA" (Power Remains: 2): B4
A      B      C
0 1 2  0 X 2  0 1 X
3 4 5  X X 5  3 4 5
6 7 8  6 7 8  6 7 8
Player 1 "APPLE" (Power Remains: 2): B5
A      C
0 1 2  0 1 X
3 4 5  3 4 5
6 7 8  6 7 8
Player 2 "BANANA" (Power Remains: 2): SKILL
New Piece Appended.
A      C      D
0 1 2  0 1 X  0 1 2

```

```

3 4 5 3 4 5 X 4 5
6 7 8 6 7 8 6 7 8
Player 1 "APPLE" (Power Remains: 1): D4
A      C      D
0 1 2 0 1 X 0 1 2
3 4 5 3 4 5 X X 5
6 7 8 6 7 8 6 7 8
Player 2 "BANANA" (Power Remains: 1): C8
A      C      D
0 1 2 0 1 X 0 1 2
3 4 5 3 4 5 X X 5
6 7 8 6 7 X 6 7 8
Player 1 "APPLE" (Power Remains: 1): A3
A      C      D
0 1 2 0 1 X 0 1 2
X 4 5 3 4 5 X X 5
6 7 8 6 7 X 6 7 8
Player 2 "BANANA" (Power Remains: 1): C4
A      C      D
0 1 2 0 1 X 0 1 2
X 4 5 3 X 5 X X 5
6 7 8 6 7 X 6 7 8
Player 1 "APPLE" (Power Remains: 1): D7
A      C      D
0 1 2 0 1 X 0 1 2
X 4 5 3 X 5 X X 5
6 7 8 6 7 X 6 X 8
Player 2 "BANANA" (Power Remains: 1): D5
A      C
0 1 2 0 1 X
X 4 5 3 X 5
6 7 8 6 7 X
Player 1 "APPLE" (Power Remains: 1): SKILL
New Piece Appended.
A      C      E
0 1 2 0 1 X 0 1 2
X 4 5 3 X 5 3 4 5
6 7 8 6 7 X X 7 8
Player 2 "BANANA" (Power Remains: 0): A1
A      C      E
0 X 2 0 1 X 0 1 2
X 4 5 3 X 5 3 4 5
6 7 8 6 7 X X 7 8
Player 1 "APPLE" (Power Remains: 0): A4
A      C      E
0 X 2 0 1 X 0 1 2
X X 5 3 X 5 3 4 5
6 7 8 6 7 X X 7 8
Player 2 "BANANA" (Power Remains: 0): A8
A      C      E
0 X 2 0 1 X 0 1 2
X X 5 3 X 5 3 4 5
6 7 X 6 7 X X 7 8
Player 1 "APPLE" (Power Remains: 0): A7
C      E
0 1 X 0 1 2
3 X 5 3 4 5
6 7 X X 7 8

```

```

Player 2 "BANANA" (Power Remains: 0): E8
C      E
0 1 X  0 1 2
3 X 5   3 4 5
6 7 X   X 7 X
Player 1 "APPLE" (Power Remains: 0): E4
C      E
0 1 X  0 1 2
3 X 5   3 X 5
6 7 X   X 7 X
Player 2 "BANANA" (Power Remains: 0): E7
C
0 1 X
3 X 5
6 7 X
Player 1 "APPLE" (Power Remains: 0): C5
Every piece in the board was dead.
=====
Player2 BANANA wins.

```

### Sample3. Five boards game with SKILL

```

=====
Welcome to the Notakto, APPLE & BANANA.
  Total battle times: 0.
  Player APPLE wins: 0.
  Player BANANA wins: 0.
=====
  Select Command to Continue (PLAY / NAME / EXIT)
: PLAY
=====
What's your preferred size of board? ("0" for random)
Board (0 or 1-5): 5
=====
  A      B      C      D      E
0 1 2  0 1 2  0 1 2  0 1 2  0 1 2
3 4 5  3 4 5  3 4 5  3 4 5  3 4 5
6 7 8  6 7 8  6 7 8  6 7 8  6 7 8
Player 1 "APPLE" (Power Remains: 1): E4
  A      B      C      D      E
0 1 2  0 1 2  0 1 2  0 1 2  0 1 2
3 4 5  3 4 5  3 4 5  3 4 5  3 X 5
6 7 8  6 7 8  6 7 8  6 7 8  6 7 8
Player 2 "BANANA" (Power Remains: 1): E3
  A      B      C      D      E
0 1 2  0 1 2  0 1 2  0 1 2  0 1 2
3 4 5  3 4 5  3 4 5  3 4 5  X X 5
6 7 8  6 7 8  6 7 8  6 7 8  6 7 8
Player 1 "APPLE" (Power Remains: 1): E8
  A      B      C      D      E
0 1 2  0 1 2  0 1 2  0 1 2  0 1 2
3 4 5  3 4 5  3 4 5  3 4 5  X X 5
6 7 8  6 7 8  6 7 8  6 7 8  6 7 X
Player 2 "BANANA" (Power Remains: 1): E0
  A      B      C      D

```

```

0 1 2 0 1 2 0 1 2 0 1 2
3 4 5 3 4 5 3 4 5 3 4 5
6 7 8 6 7 8 6 7 8 6 7 8
Player 1 "APPLE" (Power Remains: 1): D4
A      B      C      D
0 1 2 0 1 2 0 1 2 0 1 2
3 4 5 3 4 5 3 4 5 3 X 5
6 7 8 6 7 8 6 7 8 6 7 8
Player 2 "BANANA" (Power Remains: 1): SKILL
New Piece Appended.
A      B      C      D      F
0 1 2 0 1 2 0 1 2 0 1 2 0 1 2
3 4 5 3 4 5 3 4 5 3 X 5 3 4 X
6 7 8 6 7 8 6 7 8 6 7 8 6 7 8
Player 1 "APPLE" (Power Remains: 0): A2
A      B      C      D      F
0 1 X 0 1 2 0 1 2 0 1 2 0 1 2
3 4 5 3 4 5 3 4 5 3 X 5 3 4 X
6 7 8 6 7 8 6 7 8 6 7 8 6 7 8
Player 2 "BANANA" (Power Remains: 0): B4
A      B      C      D      F
0 1 X 0 1 2 0 1 2 0 1 2 0 1 2
3 4 5 3 X 5 3 4 5 3 X 5 3 4 X
6 7 8 6 7 8 6 7 8 6 7 8 6 7 8
Player 1 "APPLE" (Power Remains: 0): F4
A      B      C      D      F
0 1 X 0 1 2 0 1 2 0 1 2 0 1 2
3 4 5 3 X 5 3 4 5 3 X 5 3 X X
6 7 8 6 7 8 6 7 8 6 7 8 6 7 8
Player 2 "BANANA" (Power Remains: 0): F3
A      B      C      D
0 1 X 0 1 2 0 1 2 0 1 2
3 4 5 3 X 5 3 4 5 3 X 5
6 7 8 6 7 8 6 7 8 6 7 8
Player 1 "APPLE" (Power Remains: 0): D7
A      B      C      D
0 1 X 0 1 2 0 1 2 0 1 2
3 4 5 3 X 5 3 4 5 3 X 5
6 7 8 6 7 8 6 7 8 6 X 8
Player 2 "BANANA" (Power Remains: 0): D1
A      B      C
0 1 X 0 1 2 0 1 2
3 4 5 3 X 5 3 4 5
6 7 8 6 7 8 6 7 8
Player 1 "APPLE" (Power Remains: 0): C8
A      B      C
0 1 X 0 1 2 0 1 2
3 4 5 3 X 5 3 4 5
6 7 8 6 7 8 6 7 X
Player 2 "BANANA" (Power Remains: 0): C5
A      B      C
0 1 X 0 1 2 0 1 2
3 4 5 3 X 5 3 4 X
6 7 8 6 7 8 6 7 X
Player 1 "APPLE" (Power Remains: 0): C
Invalid Move!
Player 1 "APPLE" (Power Remains: 0): C2
A      B

```

```

0 1 X 0 1 2
3 4 5 3 X 5
6 7 8 6 7 8
Player 2 "BANANA" (Power Remains: 0): B6
A      B
0 1 X 0 1 2
3 4 5 3 X 5
6 7 8 X 7 8
Player 1 "APPLE" (Power Remains: 0): B8
A      B
0 1 X 0 1 2
3 4 5 3 X 5
6 7 8 X 7 X
Player 2 "BANANA" (Power Remains: 0): B0
A
0 1 X
3 4 5
6 7 8
Player 1 "APPLE" (Power Remains: 0): A0
A
X 1 X
3 4 5
6 7 8
Player 2 "BANANA" (Power Remains: 0): A8
A
X 1 X
3 4 5
6 7 X
Player 1 "APPLE" (Power Remains: 0): A4
Every piece in the board was dead.
=====
Player2 BANANA wins.

```