# Homework 2

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### Code

```
DEL tetris:leaderboard
    ZADD tetris:leaderboard 0 "Ahna" 0 "Nate" 0 "Gus" 0 "Luis"
    ZRANGE tetris:leaderboard 0 999999 WITHSCORES
    ZRANGEBYSCORE tetris:leaderboard 0 2000
    ZINCRBY tetris:leaderboard 9213 "Ahna"
 5
    ZINCRBY tetris:leaderboard 5246 "Nate"
    ZINCRBY tetris:leaderboard 9971 "Gus"
    ZINCRBY tetris:leaderboard 7705 "Luis"
 8
    ZRANGE tetris:leaderboard 0 999999 WITHSCORES
10
    ZINCRBY tetris:leaderboard 14 "Ahna"
    ZINCRBY tetris:leaderboard 5222 "Nate"
11
    ZINCRBY tetris:leaderboard 7097 "Gus"
12
    ZINCRBY tetris:leaderboard 5520 "Luis"
13
14
    ZRANGE tetris:leaderboard 0 999999 WITHSCORES
15
    ZINCRBY tetris:leaderboard 3160 "Ahna"
    ZINCRBY tetris:leaderboard 6761 "Nate"
16
17
    ZINCRBY tetris:leaderboard 6921 "Gus"
18
    ZINCRBY tetris:leaderboard 281 "Luis"
19
    ZRANGE tetris:leaderboard 0 999999 WITHSCORES
```

## **Code with Results**

```
1
    DEL tetris:leaderboard
 2
   > 0
 3
   ZADD tetris:leaderboard 0 "Ahna" 0 "Nate" 0 "Gus" 0 "Luis"
    ZRANGE tetris:leaderboard 0 999999 WITHSCORES
 5
    > Ahna
 6
    > 0
 8
    > Gus
 9
    > 0
   > Luis
10
11
   > 0
    > Nate
12
13
14
    ZRANGEBYSCORE tetris:leaderboard 0 2000
15
    > Ahna
```

```
16 > Gus
17 > Luis
18 > Nate
19 ZINCRBY tetris:leaderboard 9213 "Ahna"
20 > 9213
21
   ZINCRBY tetris:leaderboard 5246 "Nate"
22
   > 5246
23 ZINCRBY tetris:leaderboard 9971 "Gus"
24 > 9971
25
   ZINCRBY tetris:leaderboard 7705 "Luis"
   > 7705
26
   ZRANGE tetris:leaderboard 0 999999 WITHSCORES
27
   > Nate
28
29 > 5246
30 > Luis
31 > 7705
32 > Ahna
33 > 9213
34 > Gus
   > 9971
35
36 | ZINCRBY tetris:leaderboard 14 "Ahna"
37 > 9227
38
   ZINCRBY tetris:leaderboard 5222 "Nate"
39 > 10468
   ZINCRBY tetris:leaderboard 7097 "Gus"
40
   > 17068
41
42
   ZINCRBY tetris:leaderboard 5520 "Luis"
43
   > 13225
44 ZRANGE tetris:leaderboard 0 999999 WITHSCORES
45
   > Ahna
46 > 9227
47 > Nate
48 > 10468
   > Luis
49
50 > 13225
51 > Gus
52 > 17068
53
   ZINCRBY tetris:leaderboard 3160 "Ahna"
54 > 12387
55 ZINCRBY tetris:leaderboard 6761 "Nate"
56 > 17229
57
   ZINCRBY tetris:leaderboard 6921 "Gus"
58 > 23989
59
   ZINCRBY tetris:leaderboard 281 "Luis"
60
   > 13506
    ZRANGE tetris:leaderboard 0 999999 WITHSCORES
```

```
62 > Ahna

63 > 12387

64 > Luis

65 > 13506

66 > Nate

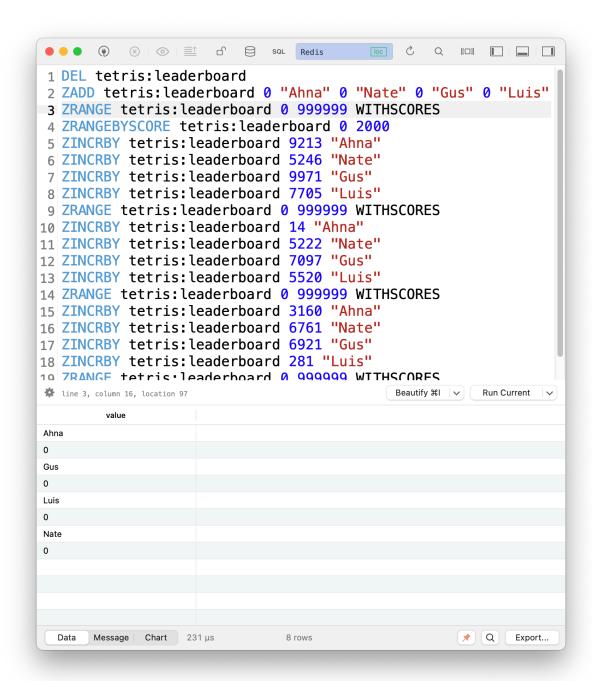
67 > 17229

68 > Gus

69 > 23989
```

# **Screenshots of Initial and Final State**

# **Initial State**



### **Final State**

