

# MTH 225: Homework #11

Due Date: May 01, 2024

1. A chess tournament consisted of 18 players labeled  $A - R$  who played five matches. In each match one of the players could win or the match resulted in a draw. The following is a summary of the result of that tournament:

- (a) **Player A:** Defeated players  $J, N$ . No draws.
- (b) **Player B:** Defeated player  $K$ . Draw against player  $J$ .
- (c) **Player C:** Defeated players  $L, O$ . Draw against players  $K, D$ .
- (d) **Player D:** Defeated players  $L, K, M$ . Draw against player  $E$ .
- (e) **Player E:** Defeated players  $C, N$ . No draws.
- (f) **Player F:** Defeated players  $L, O, A$ . No draws.
- (g) **Player G:** Defeated players  $M, A$ . Draw against player  $D$ .
- (h) **Player H:** Defeated players  $B, E, GF$ . No draws.
- (i) **Player I:** Defeated players  $K, N, R$ . Draw against player  $P$ .
- (j) **Player J:** No victories. Draw against player  $B$ .
- (k) **Player K:** Defeated player  $J$ . Draw against player  $C$ .
- (l) **Player L:** Defeated players  $J, B$ . Draw against player  $D$ .
- (m) **Player M:** Defeated players  $B, E$ . No draws.
- (n) **Player N:** Defeated player  $F$ . No draws.
- (o) **Player O:** Defeated players  $G, N$ . No draws.
- (p) **Player P:** Defeated players  $A, H, R$ . Draws against players  $I, Q$ .
- (q) **Player Q:** Defeated players  $M, O, I$ . Draws against players  $R, P$ .
- (r) **Player R:** Defeated players  $J, E$ . Draw against player  $K$ .

Using any kind of software you like, compute a ranking of the players in this tournament. Submit printouts of any code you use and the output of that code. Unlike the examples in class, you have to account for draws/ties. **Your work must be your own. Any direct copying of another students code is a violation of the Honor Code.**