Figure 1: An example of our lower bound construction in Theorem **??** where $m = 18$. Hence, we set $t = 4$ and $n = t^2 = 16$, resulting in the profile P shown above. In every agent's ranking (horizontal bars), the example mentions the top-ranked alternative. Additionally, we marked alternatives 11 and 12 in every ranking to showcase the symmetry of P. Alternatives 17 and 18 are shown for two agents of every cohort. Notice that these alternatives appear in the exact same positions of every agent's ranking.