Figure 6: An AMM with $|M| = 5$
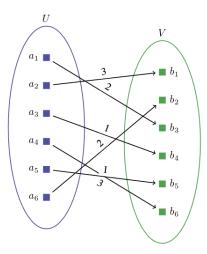

Figure 8: An AMM with matching with signature $(3, 3, 0, 0, 1)$

Figure 7: An AMM with $|M| = 6$

An AMM matching for the above graph is as show in Figure 8 and it's signature is given by $(3, 3, 0, 0, 1)$. One can easily see that the FM shown in Figure 9 is more rank-maximal with a signature $(4, 0, 1, 2, 0)$.

Figure 9: A Fair matching with signature $(4, 0, 1, 2, 0)$

Conclusion

In this work, we introduce the notion of an AUPCR maximizing matching. We describe two variants with one maximizing the AUPCR, and the other maximizing the cardinality subject to maximizing the AUPCR. We empirically evaluate our algorithm on standard synthetically generated datasets and highlight that AUPCR maximizing matching achieves this much needed middle-ground with respect to the different notions of optimality. The overall performance of the AUPCR matching is superior in comparison to other matchings when all metrics are cumulatively used for comparison. Extending the AUPCR matching and finding algorithms with reduced time complexity is left as future work. Enim eos eaque totam voluptas, similique eligendi deleniti quaerat inventore, eos maxime omnis maiores aliquid eligendi cumque, omnis corrupti quo laborum harum, repre-
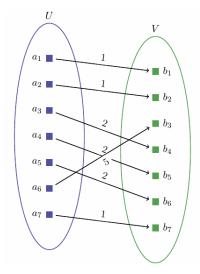
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