**ALGORITHM**

1,2,3,4🡪

1. Pick edge 7-6: No cycle is formed, include it.

2. Pick edge 8-2: No cycle is formed, include it.

3. Pick edge 6-5: No cycle is formed, include it.

4. Pick edge 0-1: No cycle is formed, include it.

5. Pick edge 2-5: No cycle is formed, include it.

6. Pick edge 8-6: Since including this edge results in the cycle, discard it.

7. Pick edge 2-3: No cycle is formed, include it.

8. Pick edge 7-8: Since including this edge results in the cycle, discard it.

9. Pick edge 0-7: No cycle is formed, include it.

10. Pick edge 1-2: Since including this edge results in the cycle, discard it.

11. Pick edge 3-4: No cycle is formed, include it.