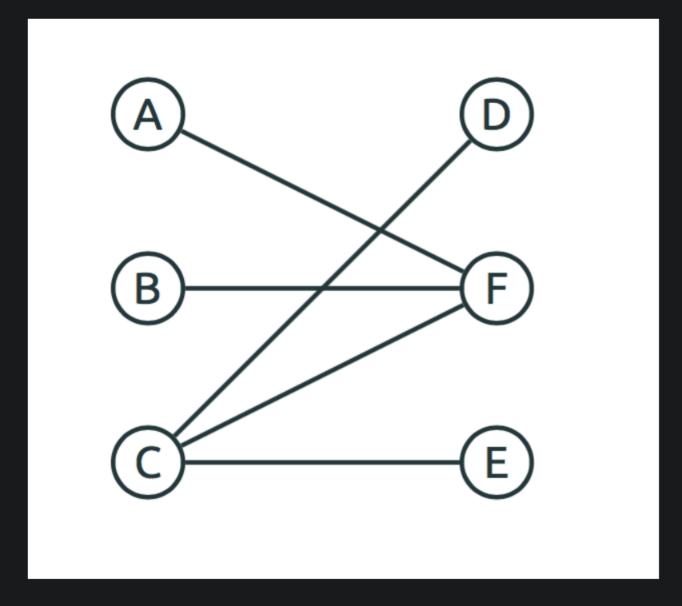


Is this graph bipartite?

- No, because it contains the cycle (A, B, F, D, C, A)
- O Yes
- It's bipartite and non-bipartite simultaneously
- No, because it contains the cycle (A, C, D, E, A)

✓ Correct

Correct, a bipartite graph cannot contain a cycle of odd length.



Does this graph have a matching which covers the vertices A, B and C?

O Yes

No

Correct, the vertices A and B are only connected to F, thus, there is no matching which covers A, B, and C.

Is there an assignment which fills all job openings?

	Alice	Ben	Chris	Diana
Administrator	+			+
Programmer			+	
Librarian		+	+	+
Professor		+		

Yes

O No

✓ Correct

Correct, for example, Alice can be Administrator, Ben -- Professor, Chris - Programmer, and Diana - Librarian.