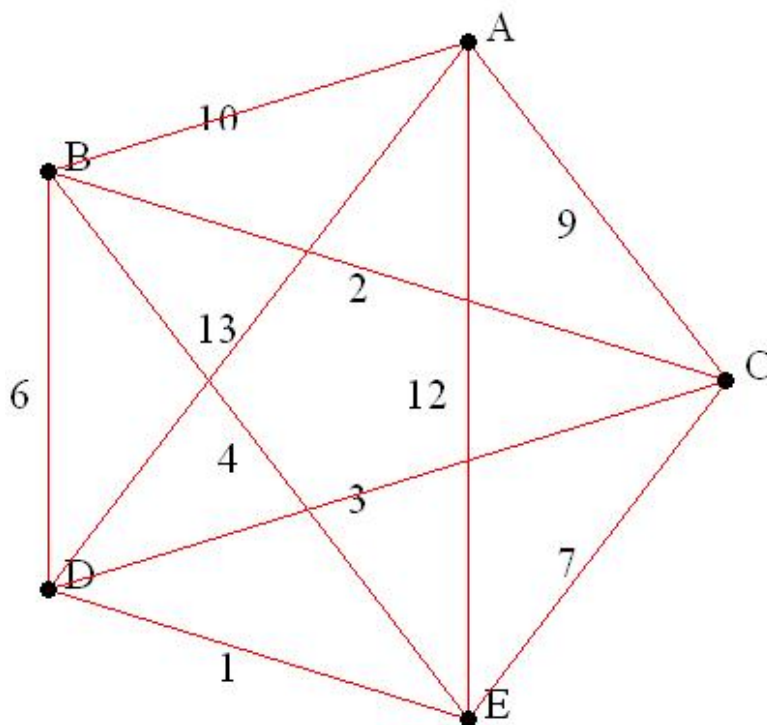


Example We are interested in finding the minimum cost Hamiltonian circuit for the following complete graph.

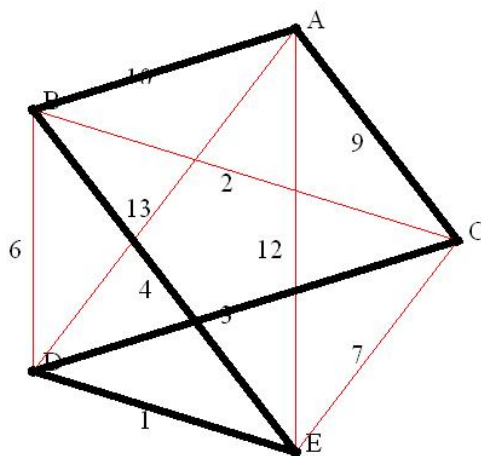


Since this is a complete graph with 5 vertices, it has $(5 - 1)!/2 = 12$ different Hamiltonian circuits.

Brute Force

Here are the results of the brute force method to find the minimum-cost Hamiltonian circuit:

Hamiltonian Circuit	Cost (Distance Travelled)
ABCDEA	28
ABCEDA	33
ABDCEA	38
ABDECA	33
ABEDCA	27
ABECDA	37
ACBDEA	30
ACBEDA	29
ACEBDA	39
ACDBEA	34
ADBCEA	40
ADCBEA	34



The minimum cost Hamiltonian circuit (shown above) is ABEDCA with cost of 27.