AQA Computer Science A Level
4.3.6 Optimisation algorithm

Flashcards

What is the purpose of an optimisation algorithm?

What is the purpose of an optimisation algorithm?

To find the best possible solution to the problem posed

What is the purpose of Dijkstra's algorithm?

What is the purpose of Dijkstra's algorithm?

To find the shortest path between two nodes in a network

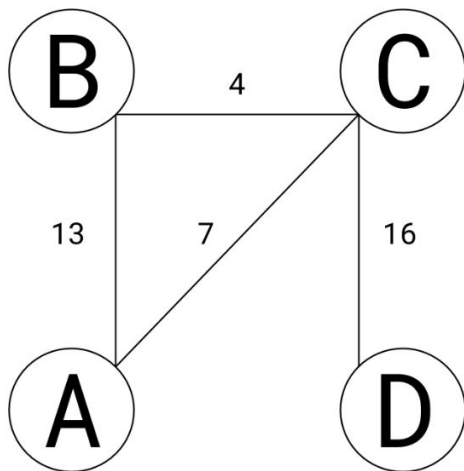Which of the following is **not** an example of where Dijkstra's algorithm is used?

A. Satellite navigation
B. Binary tree search
C. Packet routing

Which is **not** an example of where Dijkstra's algorithm is used?

B. Binary tree search

Which table shows Dijkstra's algorithm carried out on the graph above?

A

V	A	B	C	D
A	0_A	11_C	7_A	∞_A
C	0_A	11_C	7_A	23_C
B	0_A	11_C	7_A	23_C

B

V	A	B	C	D
A	0_A	13_B	7_C	∞_D
B	0_A	11_B	7_A	23_D
C	0_A	11_A	7_A	23_C

C

V	A	B	C	D
A	0_A	13_A	7_A	∞_A
C	0_A	11_C	7_A	23_C
B	0_A	11_C	7_A	23_C

Which table showed Dijkstra's algorithm carried out on the graph?

C