CIS263 Assignment Eight

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Write a program that implements the Ford-Fulkerson method for maximum flow. Given the graph attached to this assignment, provide the solution (maximum flow) to the graph as well as the paths that would be taken to achieve the maximum flow.

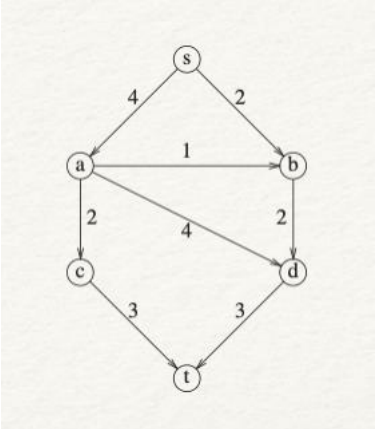

Diagram from Mark Allen Weiss Data Structures & Algorithm Analysis in C++

Approved programming languages: C, C++, C#, Python, Java.

Hand-in:

1. The code used to complete the task (no zip files).
2. The output demonstrating the Ford-Fulkerson method
3. A screenshot of the program execution with the maximum flow output
4. The paths traversed along with the flow for each of the paths used to determine the maximum flow.

Grading Rubric

	0%	50%	100%
Code written from scratch and doesn't use a standard library for the network flow problem (50%)	Code uses a standard library	Code does not use a standard library but is hard to read	Code does not use a stand library and is easy to follow
Output demonstrating correct functionality (50%)	Output not clear or non-existent	Output not clearly demonstrating functionality	Output clearly demonstrating functionality

See blackboard for point breakdown.