Pregel: A System for Large-Scale Graph Processing

NOTE: Your slides/presentation need to cover the assigned sections and questions in a clear and well-organized manner. You are allowed to borrow contents from other resources, such as online slides, as long as you acknowledge them. For a slide that covers a given question, please print the question on the slide. However, you don’t have to answer the question using a long paragraph of text on the slides. Instead, use bullet points, graph, animation, or oral explanation to answer the question. In your Q&A report, use text to more thoroughly answer the questions.

You only need to cover Sections 1, 2 and 4.

(1) What is superstep in the Pregel graph processing model? (Section 1) In the single source shortest path problem what computation is involved in a superstep? (See the slides)

(2) What does synchronicity in the Pregel's execution refer to? What benefits can it bring? (Section 1)

(3) How is a Pregel program terminated (completing its execution)?

(4) Use Figure 2 to illustrate a Pregel program's execution.