Special Problem 3

Consider the following simplified example: A 10-week trade study was performed involving four alternative system concepts (labeled I, II, III, and IV). Five Selection Criteria were used, each weighted equally. Each of the selection criteria were evaluated for each of the concepts and values were assigned on a scale of 1 to 5 for each criterion. The results of the weighted utility scores are shown below. A simple addition function was used to generate an overall score for each.

	A	B	C	D	E	Score
Concept I	1	2	2	4	2	11
Concept II	3	1	2	5	5	16
Concept III	2	2	1	2	2	9
Concept IV	3	3	3	3	3	15

Based on the above table of rating profiles:

1. Which concept is the superior concept? Explain your selection.

2. After considering the above results, the program manager decides to take the two concepts with the highest scores, Concepts II and Concept IV, and conduct a "run off." She/he instructs you to perform a run-off trade study between the two concepts. However, he/she also gives you only one week to perform this additional study. Describe what you would do to perform the run-off study.