

Linear Game 1

Scenario

A professor will listen to exactly one speech from each of six students – H, J, K, R, S and T. The six speeches will be delivered one at a time, consecutively, according to the following conditions:

Rules

- 1) The speeches delivered by H, J, and K, no matter what their order relative to each other, cannot form a sequence of three consecutive speeches.
- 2) The speeches delivered by R, S, and T, no matter what their order relative to each other, cannot form a sequence of three consecutive speeches.
- 3) H's speech must be earlier than S's speech.
- 4) J's speech can be neither first nor sixth.
- 5) T's speech can be neither immediately before nor immediately after J's speech.

Questions

1) Which of the following could be the order, from first to last, in which the students deliver their speeches?

- (A) H, J, R, S, T, K
- (B) H, R, T, K, S, J
- (C) K, J, T, H, S, R
- (D) R, J, K, T, H, S
- (E) T, R, J, S, K, H

2) If T delivers the third speech, which one of the following must be true?

- (A) H delivers the first speech
- (B) J delivers the fifth speech.
- (C) K delivers the fourth speech.
- (D) R delivers the sixth speech.
- (E) S delivers the fourth speech.

3) If S delivers the third speech and T delivers the fourth speech, then which one of following must be true?

- (A) H delivers the second speech.
- (B) J delivers the fifth speech.
- (C) K delivers the fifth speech.

- (D) K delivers the first speech.
- (E) R delivers the first speech.

4) If K delivers the first speech and H delivers the fifth speech, which one of the following must be true?

- (A) R delivers the third speech.
- (B) T delivers the fourth speech.
- (C) J's speech is immediately before H's speech.
- (D) K's speech is immediately before T's speech.
- (E) R's speech is immediately before J's speech.

5) If R's speech is immediately after S's speech and immediately before K's speech, then which one of the following could be true?

- (A) H's speech is immediately before S's speech.
- (B) H's speech is immediately before T's speech.
- (C) K's speech is immediately before J's speech.
- (D) K's speech is immediately before T's speech.
- (E) T's speech is immediately before S's speech.

6) If K delivers the third speech, any of the following could be the student who makes the fourth speech EXCEPT

- (A) H
- (B) J
- (C) R
- (D) S
- (E) T