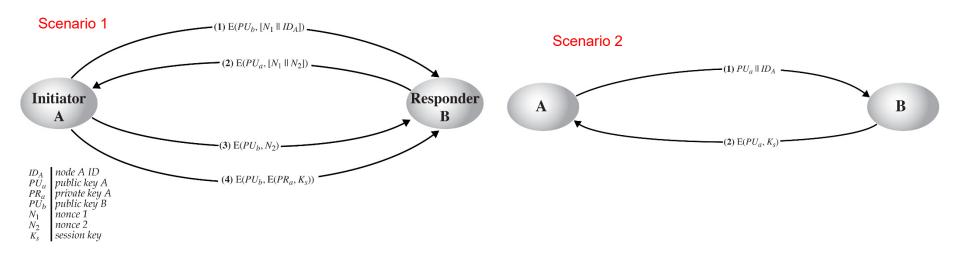
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Question 3:

We have the following two Public-Key Encryption scenarios for establishing a Session Key:





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Question 3:

- A) Is scenario 2, safe against man-in-the-middle attacks? Why?
- B) In scenario 1, is each side confident about the authenticity of the other side? Why?
- **C)** In scenario 1, assume that in step 2 only **nonce 2** is being transmitted (and not **nonce 1**). In the end of step 4, which side is ensured about the identity of the other side? Why?