Remote-Item Association Task (RIA)

Instruction: Describe each image briefly. Analyze and explore the relation between the two images, identifying any possible connections, themes, or shared elements. + `<img 1>` + `<img 2>`

Query Images:

<img 1>   <img 2>

Reference Answer

Image 1: An armadillo   **Image 2:** Kevlar fabric

🔑 **Relation:** Protection

💡 **Explanation:** Armadillos possess natural armor for protection, while Kevlar is used in bulletproof vests for the same purpose. The common concept between them is protection.

🔀 **Association Reasoning Path:**

Possess(Armadillo, NaturalArmor) and Purpose(NaturalArmor, Protection)

UsedIn(Kevlar, BulletproofVest) and Purpose(BulletproofVest, Protection)

Thus, Armadillo ➡ NaturalArmor ➡ Protection and Kevlar ➡ BulletproofVest ➡ Protection

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In-Context Association Task (ICA)

Instruction:

1. Briefly describe **Image 1.1**, **Image 1.2**, and **Image 2.1** based on their visual information.
2. Analyze the relationship between **Image 1.1** and **Image 1.2**, identifying any possible connections, themes, or shared elements that link **Image 1.1** to **Image 1.2**.
3. Design **Image 2.2** so that its relationship with **Image 2.1** mirrors that between **Image 1.1** and **Image 1.2**. Use insights from the first pair to guide your design. + `<img 1.1>` + `<img 1.2>` + `<img 2.1>`

Context Pair   **Query Pair**

<img 1.1>   <img 2.1>

          (Imagined Target)

<img 1.2>   <img 2.2>

Reference Answer

Image 1:   **Image 3:**
A bald eagle   A lion

Image 2:   🔑**Image 4:**
Basketball game   Football game

🔑**Relation:**

Animals on the National Emblem and Sport's Origin

💡**Explanation:**

1. The bald eagle is the symbol on the national emblem of the United States, where the basketball originated.
2. The lion is the symbol on the national emblem of England, where the football originated.

🔀**Association Reasoning Path:**

1. NationalEmblem(BaldEagle, US) and Origin(US, Basketball)
   Thus, BaldEagle ➡ US ➡ Basketball
2. NationalEmblem(Lion, England) and Origin(England, Football)
   Thus, Lion ➡ England ➡ Football