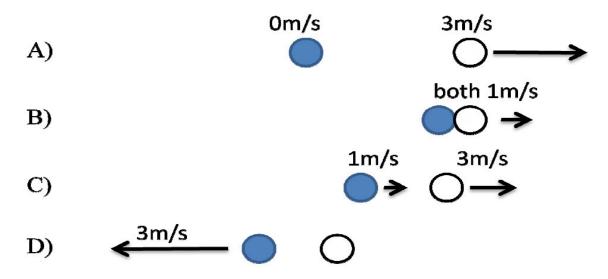
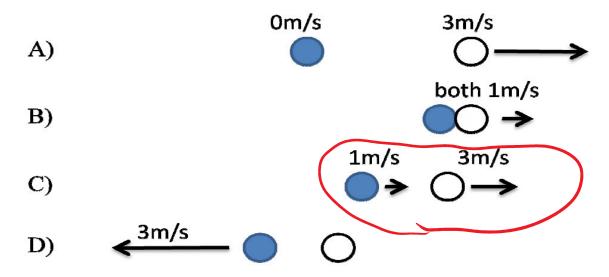
Question 7: A ball moving at 4m/s collides with a stationary ball of equal mass. If the collision is not perfectly elastic, which of the following could be the result of the collision?



E) Any of the above are possible

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While fighting over a potential mate, two space salmon traveling at equal speeds collide with each other. During the collision, we can say that

- A) The force on the smaller space salmon from the larger space salmon is **greater** than the force on the larger space salmon from the smaller space salmon.
- B) The force on the smaller space salmon from the larger space salmon is **less** than the force on the larger space salmon from the smaller space salmon.
- C) The force on the smaller space salmon from the larger space salmon is the same as than the force on the larger space salmon from the smaller space salmon.
- D) Any of the above are possible.





While fighting over a potential mate, two male space salmon traveling at equal speeds collide with each other. During the collision, we can say that

- A) The force on the smaller space salmon from the larger space salmon is **greater** than the force on the larger space salmon from the smaller space salmon.
- B) The force on the smaller space salmon from the larger space salmon is **less** than the force on the larger space salmon from the smaller space salmon.
- C) The force on the smaller space salmon from the larger space salmon is the same as than the force on the larger space salmon from the smaller space salmon.
- D) Any of the above are possible.



A small car pushes a large truck that has broken down. We can say that

- a) The net force on the car has greater magnitude
- b) The net force on the truck has greater magnitude
- c) The net force on the car is equal to the net force on the truck

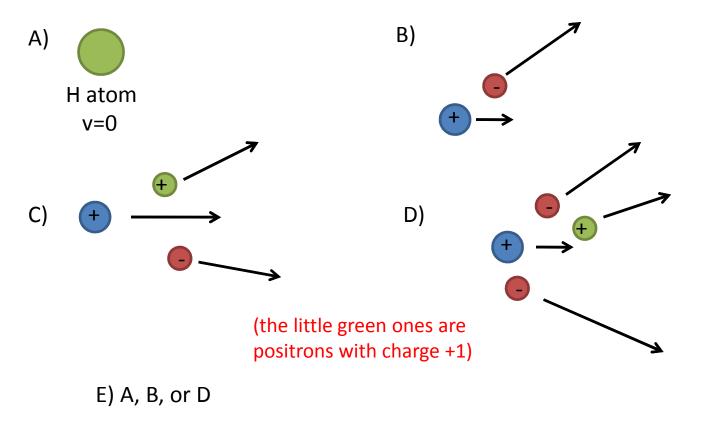


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(arrows indicate direction of velocity but are not drawn to scale)

In a particle accelerator, an electron collides with a stationary proton as shown. Which of the following is a possible outcome of the collision?



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