Esercizio 9

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N= Numero Intero CASUATE

$$1 = N = 16$$
 $A = \{N = 8\}$
 $B = \{8 = N = 15\}$
 $C = \{NPARI3$

$$-2 = \{1,2,3,4,5,6,7,8,9,19,19,12,13,14,15,16\}$$

$$|-1| = 16$$

$$A = \{1,2,3,5,5,6,7,8\} \quad -3 |A| = 8$$

$$B = \{8,9,19,11,12,13,14,15\} \quad -3|B| = 8$$

$$C = \{1,4,6,8,10,12,14,16\} \quad -3|C| = 8$$

$$P(A) = \frac{8}{16} = \frac{1}{2}$$

$$P(6) = \frac{8}{16} = \frac{1}{2}$$

$$\rho(c) = \frac{8}{16} = \frac{1}{2}$$

$$A \cap B \cap C = \left\{ 8 \right\} \rightarrow |A \cap B \cap C| = 1$$

$$P(A \cap B \cap C) = \frac{1}{16}$$

$$P(A \cap B \cap C) = P(A) \cdot P(B) \cdot P(C)$$

$$\frac{1}{16} = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$\frac{1}{16} \neq \frac{1}{8}$$

Già a guesta publo possiatio concuber che i 3 eventi non sono indipendenti

$$\frac{1}{16} = \frac{1}{2} \cdot \frac{1}{2}$$

A e B mon Sono inoi pundenti

$$p(A_0C) = \frac{4}{16} = \frac{1}{9}$$

$$\frac{1}{4} = \frac{7}{2} \cdot \frac{1}{2}$$

A e C Sono indipendenti

$$P(B_n C) = P(B) \cdot P(C)$$

Be C sono independenti

$$P(A_n(B_n\bar{c}) = \frac{|A_n(B_n\bar{c})|}{|A_n|} \geq \frac{o}{16} = 0$$

$$P(A \cup (B \cap \overline{C})) = \frac{|A \cup (B \cap \overline{C})|}{|A \cup A|} = \frac{12}{16} = \frac{3}{4}$$