(8)
$$x_i = \begin{cases} 1, & \text{the lift stops at } i \text{th floor} \\ 0, & \text{otherwise} \end{cases}$$
 $X = \begin{cases} 1, & \text{the lift stops at } i \text{th floor} \end{cases}$
 $X = \begin{cases} 1, & \text{the lift stops at } i \text{th floor} \end{cases}$
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 $X = \begin{cases} 1, & \text{the floor} i \text{t$

(0)
$$S_i = \int 1$$
, if sportsman is overtook all players of team B

o, otherwise

 S_i for players of teams A and C
 $S_i = \int_{33}^{33} F(S_i = 1) = 3$
 $S_i = \int_{i=1}^{33} F(S_i = 1) = 3$

overtook all players of team B

(2)
$$X = Y + Z \Rightarrow X \sim \text{Bin}(6, \frac{1}{3}) X_i = \int_0^1 \frac{1}{12} e^{-\frac{1}{12}} dt$$

$$EX = 6 \cdot \frac{1}{3} = 2$$

$$Var X = 6 \cdot \frac{1}{3} \cdot \frac{2}{3} = \frac{9}{3}$$

$$15) = \int_0^1 \frac{1}{12} e^{-\frac{1}{12}} dt$$

$$\int_0^1 \int_0^1 e^{-\frac{1}{12}} dt$$

(15)
$$S_i = \begin{cases} 1, \text{ exactly 1 person got off at floor 1} \\ 0, \text{ otherwise} \end{cases}$$

$$S = \begin{cases} 1, \text{ exactly 1 person got off at floor 1} \\ 6, \text{ people} \end{cases}$$

$$S = \begin{cases} 1, \text{ exactly 1 person got off at floor 1} \\ 6, \text{ people} \end{cases}$$

$$S = \begin{cases} 1, \text{ exactly 1 person got off at floor 1} \\ 6, \text{ people} \end{cases}$$

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$$S = \begin{cases} 1, \text{ exactly 1 person got off at floor 1} \\ 6, \text{ exactly 1} \end{cases}$$

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$$S = \begin{cases} 1, \text{ exactly 1 person got off at floor 1} \\ 6, \text{ exactly 1} \end{cases}$$

$$S = \begin{cases} 1, \text{ exactly 1 person got off at floor 1} \\ 6, \text{ exactly 1} \end{cases}$$

$$S = \begin{cases} 1, \text{ exac$$

(156)
$$\eta_{i} = \int 1$$
, exactly 2 got off at floor i
$$0, \text{ otherwise}$$

$$\eta = \sum_{i=1}^{8} \eta_{i}$$

$$= \frac{1}{2} \left[\frac{1}{2} \left(\frac{1}{2} \right)^{2} \left(\frac{1}{2} \right)^{4} \right]$$