$$S_0 = S^C$$
, $A_0 = \alpha^A$, $R_1 = SO$
 $S_1 = S^C$, $A_1 = \alpha^C$, $R_2 = SO$
 $S_2 = S^C$, $A_1 = \alpha^B$, $R_3 = 10$
 $S_3 = S^B$, $A_3 = \alpha^B$, $R_4 = 20$

$$\int_{0}^{1} = \frac{\pi(a^{8}|S^{4})}{b(a^{8}|S^{4})} = \frac{0}{0.25} = 0$$

$$S_3^1 = \frac{\pi(a^c | S^A)}{b(a^c | S^A)} = \frac{1}{25} = 4$$

$$\int_{0}^{2} = \frac{\pi(a^{4} 15^{2})}{b(a^{4} 15^{2})} = \frac{6}{.25} = 0$$

$$\int_{2}^{2} = \frac{\pi(a^{3}|S^{2})}{b(a^{3}|S^{2})} = 0$$

$$\int_{3}^{2} = \frac{\pi(a^{3} | S^{3})}{b(a^{3} | S^{3})} = 0$$

Note: I am using VT (s) = IPG

I was penalized for using the average weighted importance

Sampling formula on assignment 5: (Ep. [P.G)

8 = T - 1 =

$$= \frac{1}{1} \frac{\pi(a)}{b(a)}$$

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$$V_{\pi}(s^{4}) = 120$$

$$V_{\Pi}(S^{8}) = \int_{1:T}^{1} (G_{1}^{1} + \int_{3:T}^{2} (G_{2}^{1})^{2} dG_{3}^{2} = \int_{1:T}^{1} (G_{1}^{1})^{2} dG_{3}^{$$

$$V_{\pi}(s^c) = \int_{2:\tau}^1 \cdot G_2 + \int_{0:\tau}^2 G_0 + \int_{1:\tau}^2 \cdot G_1 + \int_{2:\tau}^2 \cdot G_2$$

$$S_{2:T} = [0.4] = 0$$

$$S_{0:T} = [0.2-0.0] = 0$$