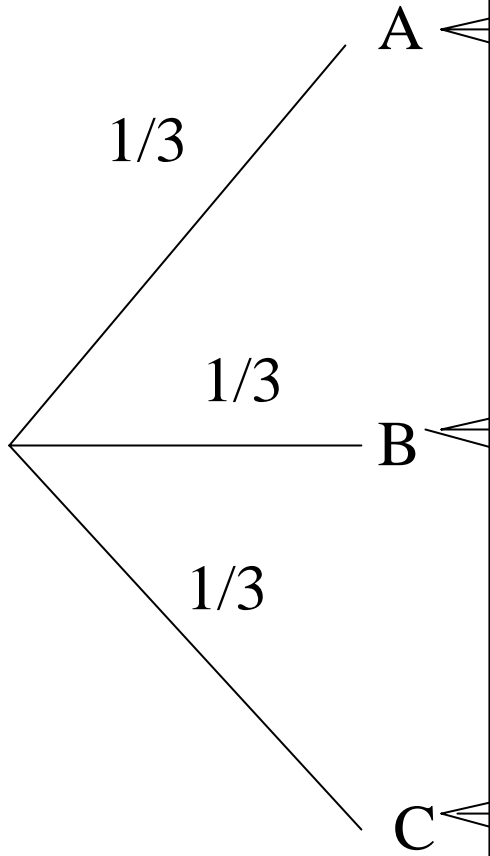


Monte Hall Three Door Problem!

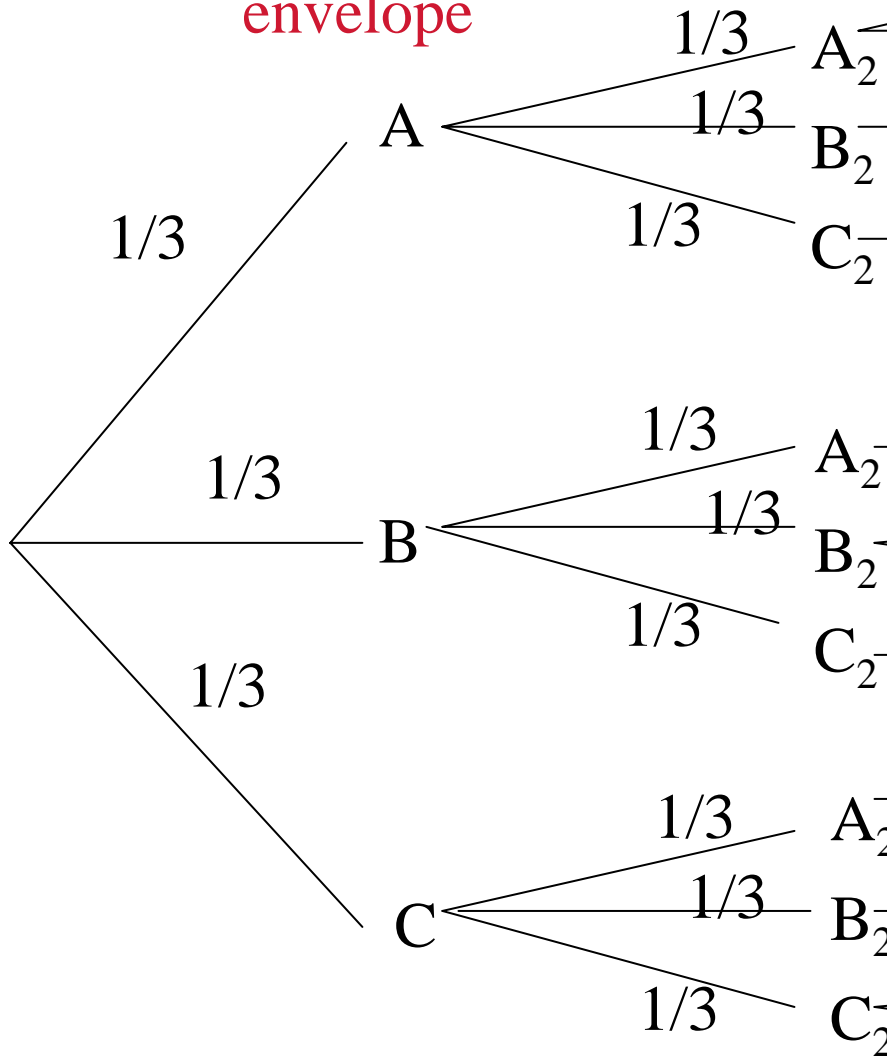
MIT ESD.86

February 7, 2007

\$20 in
envelope



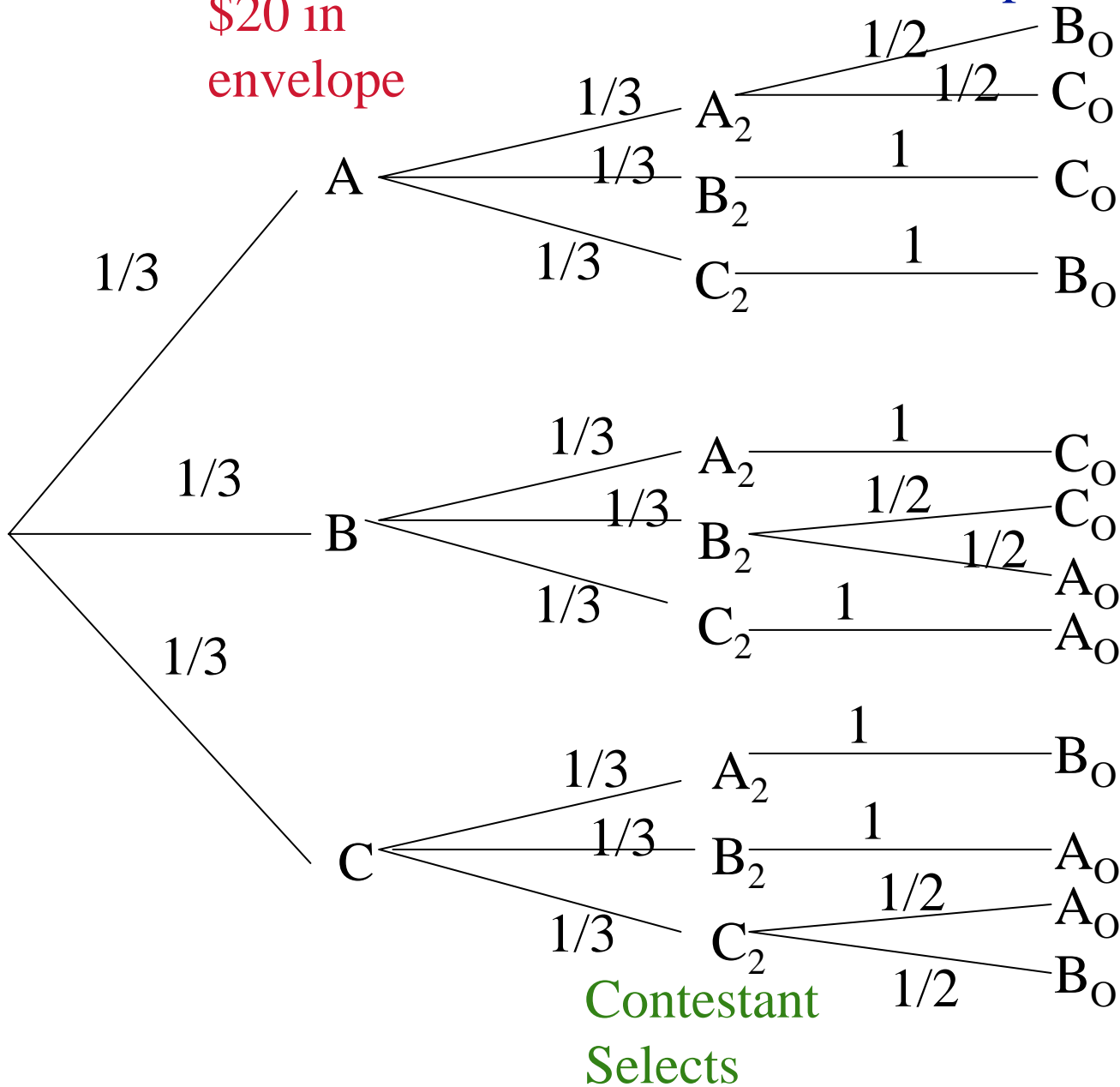
\$20 in envelope

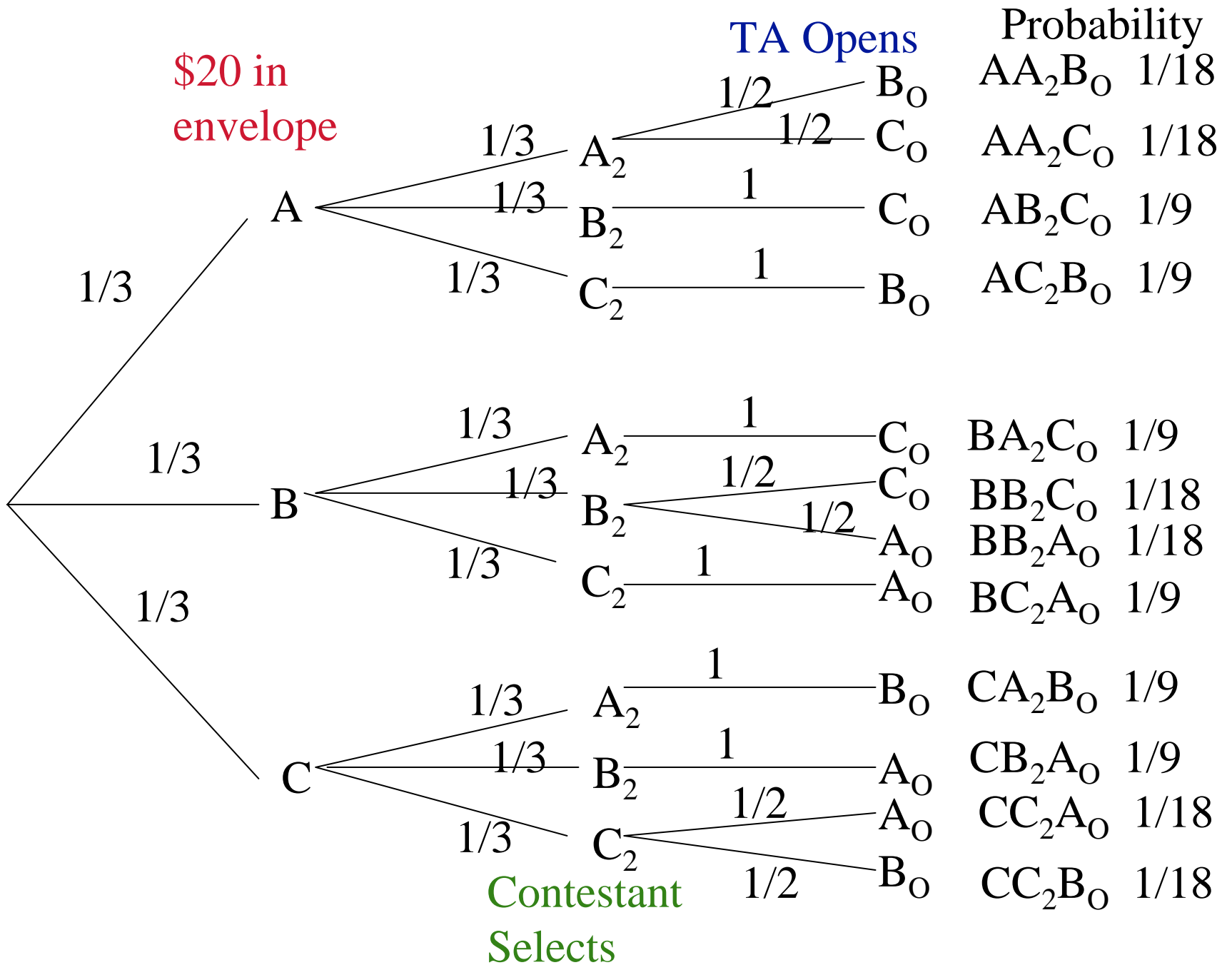


Contestant
Selects

\$20 in envelope

TA Opens





Probability	Event{ Correct Stay }	Event{ Correct Switch }
AA ₂ B ₀ 1/18	X	
AA ₂ C ₀ 1/18	X	
AB ₂ C ₀ 1/9		X
AC ₂ B ₀ 1/9		X
BA ₂ C ₀ 1/9		X
BB ₂ C ₀ 1/18	X	
BB ₂ A ₀ 1/18	X	
BC ₂ A ₀ 1/9		X
CA ₂ B ₀ 1/9		X
CB ₂ A ₀ 1/9		X
CC ₂ A ₀ 1/18	X	
CC ₂ B ₀ 1/18	X	
	P{ Correct Stay }=1/3	P { Correct Switch }=2/3