Tom : Hi everyone, I've got this problem: "Find the number of vertical asymptotes of $y = \frac{\sqrt{x+9}-3}{x^2+x}$".

Bob : Alright team, our first task is to recall the definition of a vertical asymptote... [Leader initiating Stage 1]

Charlie : Guys! **Let me define it first and give an example**. A vertical asymptote is a vertical line...

Charlie : **For example**, in $y = \frac{1}{x-2}$, $x=2$ is the "uh-oh point" because the denominator is zero... [Holding the floor]

Bob : ..., if definitions are clear, let's move into planning. [Stage transition]

...

Bob : ...what should be our first step in the plan?

Alice : I'd say find the domain first, that'll tell us the candidate points for vertical asymptotes.

Tom : The denominator not zero, right, **Charlie**?

Charlie : Yep, and also make sure the square root's inside is not negative. $x+9 \ge 0$ and $x^2+x\ne 0$. [Directed turn-taking]

Tom : So $x >= -9$ and $x \neq 0$.

Alice : Tom, that's not complete! You also missed $x \ne -1$. [Interruption, check mistake]

...

Tom : Hmm..., I'm **bored now** :<

Charlie : Haha, I get it, math sometimes feels like watching paint dry. But hey, just one tiny step left, and then you're free! [Emotional support]

Charlie_thought : I should continue to give an example...][***speak***]

Alice_thought: I should wait Charlie ...][***listen***][***4.1***]

Evaluator: Charlie proactively wanted to continue speaking, the other two agents remained silent...."**high coherence**"... → ***Charlie[4.8]***

Baseline (SimClass) - Bob : Uh I agree with Charlie...

Alice_thought : I think Tom's result is missing the...][***speak***]

Charlie_thought: Ok, now that Tom has solved it, I'll continue...][***speak***]

Evaluator: Charlie didn't notice Tom's mistake, but Alice did... Alice is expressing "**urgent**" thoughts to... → ***Alice[4.3], Charlie[2.1]***

Baseline (SimClass) - Charlie : Ok, great Tom, we should...