

Síncrona:

1. quest

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|----------------------------|-------------|
| 1. $(p \ \& \ q) \ \& \ r$ | pre |
| 2. $s \ \& \ t$ | pre |
| 3. $p \ \& \ q$ | $\&e \ 1$ |
| 4. q | $\&e \ 3$ |
| 5. s | $\&e \ 2$ |
| 6. $q \ \& \ s$ | $\&i \ 4,5$ |

2. quest

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|--------------------------------------|--------------------------|
| 1. $p \rightarrow (p \rightarrow q)$ | pre |
| 2. p | pre |
| 3. $p \rightarrow q$ | $\rightarrow e \ 2, \ 1$ |
| 4. q | $\rightarrow e \ 2, \ 3$ |

Assíncrona:

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|--------------------------------------|-----------------------|
| 1. p | pre |
| 2. $p \rightarrow q$ | pre |
| 3. $p \rightarrow (q \rightarrow r)$ | pre |
| 4. q | $\rightarrow e \ 1,2$ |
| 5. $q \rightarrow r$ | $\rightarrow e \ 1,3$ |
| 6. r | $\rightarrow e \ 4,5$ |