

$a :: [\alpha \rightarrow \text{Bool}]$

$b :: \alpha$

$c :: [(-)] \rightsquigarrow [(- \rightarrow \text{Bool}) \rightarrow -]$

$c :: [(-)] \rightsquigarrow [(\alpha \rightarrow \text{Bool}) \rightarrow \beta]$

$d :: \alpha \rightarrow \text{Bool}$

$\text{test } a \ b \ c :: [\beta]$

$\text{test} :: [\alpha \rightarrow \text{Bool}] \rightarrow \alpha \rightarrow [(\alpha \rightarrow \text{Bool}) \rightarrow \beta] \rightarrow [\beta]$