

```

\newcommand{\cmd}[1][x]{def}
\cmd
    macro:->\@protected@testopt \cmd \cmd {x}

\\cmd
    \long macro:[#1]->def

\newenvironment{abc*}{begdef}{enddef}
\abc*
    \long macro:->begdef

\endabc*
    \long macro:->enddef

\NewDocumentCommand{\xyz}{s}{def}
\xyz_code
    \protected\long macro:#1->def

\NewDocumentEnvironment{pqr}{s}{begindef}{enddef}
\pqr
    \protected macro:->\__xparse_start_env:nnnnn {s}{pqr}{\__xparse_grab_t:w
*}{}{}

\endpqr
    macro:->\environment pqr end aux

\environment_pqr_code
    \protected\long macro:#1->\cs_set_nopar:Npx \environment pqr end
    aux {\exp_not:N \environment pqr end aux \exp_not:o \l__xparse_args_tl
    }begindef

\environment_pqr_end_aux_
    \long macro:#1->enddef

```