

lstlean

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1 Introduction

```
lean
  mathescape=true,
  texcl=false,
  morekeywords=[1]
  import, prelude, protected, private, noncomputable, definition, meta, re-
naming,
  hiding, exposing, parameter, parameters, begin, conjecture, constant, con-
stants,
  hypothesis, lemma, corollary, variable, variables, premise, premises, theory,
  print, theorem, proposition, example, abstract,
  open, as, export, override, axiom, axioms, inductive, with, without,
  structure, record, universe, universes,
  alias, help, precedence, reserve, declaretrace, addkeyequivalence,
  match, infix, infixl, infixr, notation, postfix, prefix, instance,
  eval, vmeval, check, coercion, end, this, suppose,
  using, usingwellfounded, namespace, section, fields,
  attribute, local, setoption, extends, include, omit, classes, class,
  instances, coercions, attributes, raw, replacing,
  calc, have, show, suffices, by, in, at, let, forall, Pi, fun,
  exists, if, dif, then, else, assume, take, obtain, from, aliases, registersimport,
  mutual, def, runcommand
,
  morekeywords=[2]Type, Prop, Type*, Type, Type, Type, Type,
  literate=
 $\alpha$ 1
 $\beta$ 1
 $\gamma$ 1
 $\delta$ 1
 $\varepsilon$ 1
 $\zeta$ 1
 $\eta$ 1
 $\theta$ 1
```

$$\begin{array}{l}
\iota^1 \\
\kappa^1 \\
\mu^1 \\
\nu^1 \\
\xi^1 \\
\pi^1 \\
\rho^1 \\
\sigma^1 \\
\tau^1 \\
\varphi^1 \\
\chi^1 \\
\psi^1 \\
\omega^1 \\
\Gamma^1 \\
\Delta^1 \\
\Theta^1 \\
\Lambda^1 \\
\Sigma^1 \\
\Phi^1 \\
\Xi^1 \\
\Psi^1 \\
\Omega^1 \\
\aleph^1 \\
\leq^1 \\
\geq^1 \\
\neq^1 \\
\approx^1 \\
\equiv^1 \\
\simeq^1 \\
\leq^1 \\
\geq^1 \\
\partial^1 \\
\triangle^1 \\
\int^1 \\
\Sigma^1 \\
\Pi^1 \\
\perp^1 \\
\infty^1 \\
\partial^1 \\
\mp^1 \\
\pm^1 \\
\times^1 \\
\oplus^1 \\
\otimes^1 \\
1 \\
\nabla^1
\end{array}$$

$\sqrt{}$
 \cdot
 \bullet
 \circ
 \neg
 1
 \wedge
 \vee
 \neg
 \vdash
 \langle
 \rangle
 \mapsto
 \rightarrow
 \leftrightarrow
 \Rightarrow
 \Rightarrow
 \Leftarrow
 \Leftarrow
 \cap
 \cup
 \subseteq
 \subseteq
 1
 1
 \supseteq
 \supseteq
 1
 1
 \in
 \notin
 \ni
 1
 \emptyset
 \backslash
 $\dagger\dagger$
 N
 Z
 R
 Q
 C
 1
 1
 $\{$
 $\}$
 $_1$

```

21
31
41
51
61
71
81
91
01
11
n1
m1
↑1
↓1
▷1
symbolcolorΣ1
symbolcolorΠ1
symbolcolor∀1
symbolcolor∃1
symbolcolorλ1
:=symbolcolor:=1
=symbolcolor=1
|symbolcolor|1
+symbolcolor+1
*symbolcolor*1,
morecomment=[s][commentcolor]/--/,
morecomment=[l][commentcolor]-,
showstringspaces=false,
keepspaces=true,
morestring=[b]”,
morestring=[d],
tabsize=3,
extendedchars=false,
sensitive=true,
breaklines=true,
basicstyle=,
captionpos=b,
columns=[l]fullflexible,
identifierstyle=black,
keywordstyle=[1]keywordcolor,
keywordstyle=[2]sortcolor,
stringstyle=,

```