

Let \mathcal{L} be the well-known standard language of propositional logic. Now we define the language \mathcal{LRP} of propositional formulas in *Reverse Polish notation*, as follows:

- i Each propositional atom p_i is a well-formed reverse Polish formula in \mathcal{LRP} .
- ii If A and B are well-formed reverse Polish formulas in \mathcal{LRP} , then so are $A\neg$, $AB\wedge$, $AB\vee$, $AB\rightarrow$ and $AB\leftrightarrow$.
- iii Nothing is a well-formed reverse Polish formula in \mathcal{LRP} unless it is generated by finitely many repeated applications of i and ii.

So reverse Polish notation gives a postfix-version without parentheses of propositional formulas. For example, the formula $p_1\neg p_2\wedge\neg$ in reverse Polish notation is logically equivalent to the formula $\neg(\neg p_1\wedge p_2)$ in standard notation.

1. Is $p_1\neg p_2\neg\vee p_2p_3\wedge\rightarrow$ a well-formed reverse Polish formula in \mathcal{LRP} ? Why (not)?
2. Show by induction that every well-formed formula P in the language \mathcal{L} of propositional logic is equivalent to a well-formed formula P' in reverse Polish notation in \mathcal{LRP} . Prove this in two steps:
 - (a) Define P' by induction on well-formed formulas of propositional logic.
 - (b) Prove by induction that for every formula P of propositional logic, P' is logically equivalent to P , that is, for all valuations v , $v(P') = v(P)$.
Explicitly formulate an induction hypothesis.
(Here, you may assume that someone else has already proved by induction that for every well-formed propositional formula P in \mathcal{L} , the formula P' is in \mathcal{LRP} .)

Looking At It Logically Pi

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Looking At It Logically Pi:

Whispering the Techniques of Language: An Mental Journey through **Looking At It Logically Pi**

In a digitally-driven world where screens reign supreme and instant connection drowns out the subtleties of language, the profound strategies and emotional subtleties concealed within phrases frequently move unheard. Yet, set within the pages of **Looking At It Logically Pi** a fascinating literary value blinking with organic feelings, lies an extraordinary quest waiting to be undertaken. Published by a skilled wordsmith, that charming opus invites readers on an introspective journey, gently unraveling the veiled truths and profound impact resonating within ab muscles cloth of each and every word. Within the mental depths with this emotional evaluation, we shall embark upon a genuine exploration of the book is primary themes, dissect its captivating publishing style, and fail to the strong resonance it evokes deep within the recesses of readers hearts.

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