# Prolog

1972

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https://eduassistpro.github.io/
sed programming
Add WeChat edu\_assist\_pro
lang clated with symbolic
artificial intelligence.

CMPT 383
Summer 2022
SFU Surrey

## What was ignment Project Exam Help 1972?

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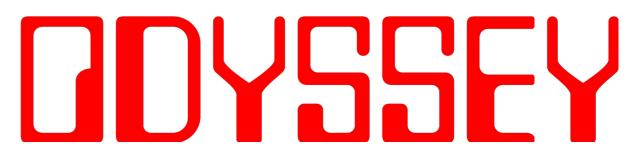
## HP-35 Pocket Scientific Calculator

How much would Assignment Project Exam Help

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\$395 in 1972dd WeChat edu\_assist\_pro

\$2559 in 2021



Magnavox Odyssey

First Home Video Project Exam Help

**Game System** 

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**Table Tennis** 

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How much would you pay for it?

\$99.95 in 1972 \$647 in 2021

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#### **Nolan Bushnell**

**Pong** 

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Atari's 1<sup>st</sup> https://eduassistpro.github.io/commerciallyAdd WeChat edu\_assist\_prosuccessfully video game



## 1972: Highest-grossing Arcade Games

#1 Computer Spaceign 2000 Project Exam Help

https://eduassistpro.github.io/ #2 Pong





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1972: Highest-Movie

https://eduassistpro.github.io/

## 1972: Most Popular Song

```
Assignment Project Exam Help
    The First Time Ever I https://eduassistpro.github.io/
Saw Your Face
    Add WeChat edu_assist_pro
Roberta Flack
```

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#### **Dennis Ritchie**

## 1972

Canadian PM

**US President** 

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Pierre Trudeau

**Richard Nixon** 

# Prolog

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1972

https://eduassistpro.github.io/ ased prog Add WeChat edu\_assist.pro langu ciated with symbolic artificial intelligence.

#### **Prolog's Creators**

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Alain Colmerauer (1941 - 2017) Robert Kowalski

### Prolog Probably Can't Get You a Job!

Prolog has been most influential as a research language ward by Atresearchers.

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It also has some Welchart edu\_assistageo processing, and declarative languages such as SQL.

#### What's Prolog Good for?

Computational logic, e.g. theorem-proving.

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Parsing natural language.

#### What's Prolog Not so Good For?

- Prolog is often not as efficient as other languages.
  - Prolog uses simple depth-first search, and needs heuristics to improve that.

    \*\*Assignment Project Exam Help\*\*

    \*\*Often stores large databases, and efficiently querying\*\*
  - those databases can be https://eduassistpro.github.io/hmarks Game

 Prolog is not used much in practice, s hard to find support for Add WeChat edu\_assist\_pro

- Prolog has a very logical flavor, which appeals to some people, but turns others off.
- Prolog syntax and semantics is quite different than other languages.

Measuring the performance of different programming languages is surprisingly difficult to do fairly. Check out

the Computer Language Ben

### Major Features of Prolog

#### Functions are first-class objects

Functions can be passed and returned (closures)
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#### Interpreted

Easy to evaluate individ <a href="https://eduassistpro.github.io/">https://eduassistpro.github.io/</a>

Memory-safe and garbage to we tend edu\_assist\_pro
No manual memory deletion

## Major Features of Prolog

#### **Types**

Dynamically typed, i.e. types checked at run-time
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Pattern matching (unification)

Given two expressions wit https://eduassistpro.githtipdipalues for those variables that make them

#### Declarative (sometimes) Add WeChat edu\_assist\_pro

You can often think of a Prolog program as describing a goal state without saying exactly how to find it. It automatically searches for a solution using depth-first search.

#### Automatic backtracking

After finding a solution to a problem, Prolog can automatically **backtrack** to decision points and make different choices.

### Major Features Not in Prolog

#### Features **not** part of Prolog

No functional programming (at least not in the style of Racket/Haskell)

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No object-oriented programming

No loops https://eduassistpro.github.io/

## Hello World in Prolog

Please use install and run SWI-Prolog. See the course notes or SWI-Prolog website for installation instructions.

?- write('Hello, world!').

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Hello, world!

true.

https://eduassistpro.github.io/