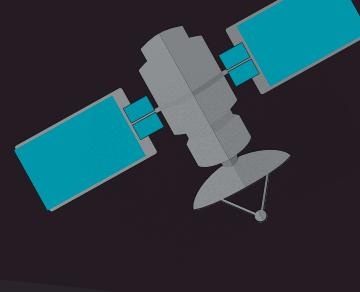


MOONS THAT ORBIT PLANETS IN THE SOLAR SYSTEM



NEPTUNE
14 moons

SATURN
83 moons

URANUS
27 moons

JUPITER
80 moons

MARS
2 tiny moons

EARTH
only one moon

VENUS
no moon

MERCURY
no moon

THE SOLAR SYSTEM

The solar system consists of the Sun and everything that orbits or travels around, the Sun. This includes the eight planets and their moons, dwarf planets, and countless asteroids, comets, and other small icy objects

SUN



Rules

- If user wanted to know the moons of Mercury or Venus, then the result is “there is no moons of both of them”.
- If user wanted to know the moons of Earth, then the result that appear is only one Moon.
- If user wanted to know the moons of Mars, then the result will be it has two tiny moons (Phobos, Deimos).
- If user wanted to know the moons of Jupiter, then the result will be it has 80 moons (Io, Europa, Ganymede).
- If user wanted to know the moons of Saturn, then the result will be it has 83 moons (Enceladus, Titan).
- If user wanted to know the moons of Uranus, then the result will be it has 27 moons and they were named reference to characters that appear in works of William Shakespeare (Ariel, Miranda, Oberon, Umbriel).
- If user wanted to know the moons of Neptune, then the result will be it has 14 moons (Larissa, Nereid).
- If user enter any planet not in solar system, the result will be that this planet not in solar system.

Personal info

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section: 3



code:

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program... — X
  Files   Edit   Run   Compile   Options   Setup
Line 1   Col 1   Y:\SOLAR_MOON.PRO   Indent   Insert
domains
  list=symbol*
predicates
  moon(symbol,symbol,list)
clauses
  moon(P,S,M):-P=mercury,S=" Mercury hasn't moons :( ",M=[],P=venus,S=" Ve
  moon(P,S,M):-P=earth,S="Earth has only one moon",M=[ "Moon"],!.
  moon(P,S,M):-P=mars,S=" Mars has two tiny moons",M=[ "Phobos","Deimos"],!.
  moon(P,S,M):-P=jupiter,S="Jupiter has 80 moons ",M=[ "Io","Europa","Titan
  moon(P,S,M):-P=saturn,S="Saturn has 83 moons",M=[ "Enceladus","Titan"],!.
  moon(P,S,M):-P=uranus,S="Uranus has 27 moons and were named reference to
  moon(P,S,M):-P=neptune,S="Neptune has 14 moons ",M=[ "larissa","nereid"],
  moon(_,S,M):-S="This planet is not in solar system",M=[].

goal
  write(" please enter planet to show its moons"),nl,readln(P),
  nl,moon(P,S,M),write(S," its major moons:",M),nl.
```

F1-Help F2-Save F3-Load F5-Zoom F6-Next F7-Xcopy F8-Xedit F9-Compile F10-Menu

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program... — X
  Files   Edit   Run   Compile   Options   Setup
Line 14   Col 1   Y:\SOLAR_MOON.PRO   Indent   In
domains
  list=symbol*
predicates
  moon(symbol,symbol,list)
clauses
  moon(P,S,M):-P=mercury,S=" Mercury hasn't mo
  moon(P,S,M):-P=earth,S="Earth has only one m
  moon(P,S,M):-P=mars,S=" Mars has two tiny mo
  moon(P,S,M):-P=jupiter,S="Jupiter has 80 moo
  moon(P,S,M):-P=saturn,S="Saturn has 83 moons
  moon(P,S,M):-P=uranus,S="Uranus has 27 moons
  moon(P,S,M):-P=neptune,S="Neptune has 14 moo

Editor
Dialog
mars
Mars has two tiny moons
its major moons:[ "Phobo
s","Deimos"]

please enter planet to
show its moons
pluto

This planet is not in so
lar system its major moo
ns:[]

Press the SPACE bar

Message
Load Y:\SOLAR_MOON.PRO
Compiling Y:\SOLAR_MOON.PRO
moon
Compilation successful

Trace
```