32.3

implement main

open core, console

class facts

point : (integer X, integer Y).

clauses

point(1,1).

point(1,2).

point(1,4).

point(2,1).

point(2,2).

point(2,4).

point(3,2).

point(4,1).

point(4,3).

run():-

write("All points:\n"),

point(X,Y),

writef("Point: (%,%) \n", X, Y),

fail();

write("Finished displaying all points!"),

\_ = readchar().

end implement main

goal

console::run(main::run).

32.4

implement main

open core, console

class facts

point : (integer X, integer Y).

clauses

point(1,1).

point(1,2).

point(1,4).

point(2,1).

point(2,2).

point(2,4).

point(3,2).

point(4,1).

point(4,3).

run():-

write("Points where X + Y = 5:\n"),

write("======================\n"),

point(X,Y),

Sum = X + Y,

Sum = 5,

writef("Point: (%,%) -> % + % = %\n", X, Y, X, Y, Sum),

fail();

write("\nSearch completed!"),

\_ = readchar().

end implement main

goal

console::run(main::run).

32.8

implement main

open core, console

class facts

point : (integer X, integer Y).

clauses

point(1,1).

point(1,2).

point(1,4).

point(2,1).

point(2,2).

point(2,4).

point(3,2).

point(4,1).

point(4,3).

run():-

write("Finding points above line y = k\*x + b\n"),

write("Enter coefficient k: "),

K = read(),

write("Enter coefficient b: "),

B = read(),

write("Line equation: y = ", K, "\*x + ", B, "\n"),

write("Points above this line:\n"),

point(X, Y),

LineY = K \* X + B,

Y > LineY,

write("Point (", X, ",", Y, ") > line value ", LineY, "\n"),

fail();

write("Search completed!\n"),

\_ = readchar().

end implement main

goal

console::run(main::run).

32.17

implement main

open core, console

class facts

month : (integer Number, string Name).

clauses

month(1, "январь").

month(2, "февраль").

month(3, "март").

month(4, "апрель").

month(5, "май").

month(6, "июнь").

month(7, "июль").

month(8, "август").

month(9, "сентябрь").

month(10, "октябрь").

month(11, "ноябрь").

month(12, "декабрь").

run():-

write("Months ending with soft sign (ь):\n"),

write("=================================\n"),

month(Number, Name),

string::hasSuffix(Name, "ь"),

writef("Month %: %\n", Number, Name),

fail();

write("\nSearch completed!"),

\_ = readchar().

end implement main

goal

console::run(main::run).