PS C:\Users\User\ownCloud\GitHub\AlgorithmicEquivalence\src> swipl

Welcome to SWI-Prolog (threaded, 64 bits, version 8.0.1)

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For built-in help, use ?- help(Topic). or ?- apropos(Word).

1 ?- consult(['main', 'db', 'generalization\_abstraction']).

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_utils.pl:111:

Singleton variables: [Symb,Rho,AllMatrix]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_utils.pl:170:

Singleton variables: [F,N,M]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_utils.pl:254:

Singleton variables: [Atoms2]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_utils.pl:340:

Singleton variables: [A2]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/mcg.pl:17:

Singleton variables: [M]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/exhaustive\_renamings.pl:59:

Singleton variables: [Z]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/exhaustive\_renamings.pl:62:

Singleton variables: [Z]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/exhaustive\_renamings.pl:80:

Clauses of exhaustive\_renamings:collisions\_mappings/2 are not together in the source-file

Earlier definition at c:/users/user/owncloud/github/algorithmicequivalence/src/exhaustive\_renamings.pl:73

Current predicate: exhaustive\_renamings:collisions\_mapping/2

Use :- discontiguous exhaustive\_renamings:collisions\_mappings/2. to suppress this message

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/exhaustive\_renamings.pl:103:

Singleton variables: [Atoms1,Atoms2]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/exhaustive\_renamings.pl:119:

Singleton variables: [Y]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:72:

Singleton variables: [EnforcedPhi]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:227:

Local definition of generalization\_abstraction:firsts/2 overrides weak import from utils

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:265:

Singleton variables: [Sequence,TestedSequence]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:282:

Singleton variables: [M]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:285:

Singleton variables: [B]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:287:

Singleton variables: [A]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:59:

Singleton variables: [L1,L2,MAXGEN,McgVarsMapping]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:104:

Singleton variables: [CurrentRho,ZippedCurrentGen,TotalMatrix,TotalMatrixScores,Matrix,MatrixScores]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:136:

Clauses of main:generalize\_poly/8 are not together in the source-file

Earlier definition at c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:101

Current predicate: main:gp/8

Use :- discontiguous main:generalize\_poly/8. to suppress this message

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:72:

Singleton variables: [EnforcedPhi]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:227:

Local definition of generalization\_abstraction:firsts/2 overrides weak import from utils

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:265:

Singleton variables: [Sequence,TestedSequence]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:282:

Singleton variables: [M]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:285:

Singleton variables: [B]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:287:

Singleton variables: [A]

true.

2 ?- test\_class(8, 1000, 1).

Correct to: "main:test\_class(8,1000,1)"? yes

Warning: set\_prolog\_stack/2: limit(Size) sets the combined limit.

Warning: See http://www.swi-prolog.org/changes/stack-limit.html

--------------Class 8, K = 1000 :

Time Results : [391-16937-114063]

Accuracy Results : [1]

Mean time results: 391-16937-114063

Mean accuracy results: 1

true .

3 ?- test\_class(1, 1000, 1000).

Correct to: "main:test\_class(1,1000,1000)"? yes

--------------Class 1, K = 1000 :

Time Results : [0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-16-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-16-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-15-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-16-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-16-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0]

Accuracy Results : [1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]

Mean time results: 0.233-0.079-0.281

Mean accuracy results: 1

true .

4 ?- test\_class(2, 1000, 1000).

Correct to: "main:test\_class(2,1000,1000)"? yes

Action (h for help) ? Unknown option (h for help)

Action (h for help) ? abort

% Execution Aborted

5 ?- test\_class(2, 1000, 10).

Correct to: "main:test\_class(2,1000,10)"? yes

--------------Class 2, K = 1000 :

Time Results : [31-16-63,47-0-46,16-15-32,32-0-31,16-15-47,15-0-0,16-0-0,16-0-0,0-16-31,16-15-47]

Accuracy Results : [1,1,1,1,1,1,1,1,1,1]

Mean time results: 20.5-7.7-29.7

Mean accuracy results: 1

true .

6 ?- consult(['main', 'db', 'generalization\_abstraction']).

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:59:

Singleton variables: [L1,L2]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:104:

Singleton variables: [CurrentRho,ZippedCurrentGen,TotalMatrix,TotalMatrixScores,Matrix,MatrixScores]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:136:

Clauses of main:generalize\_poly/8 are not together in the source-file

Earlier definition at c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:101

Current predicate: main:gp/8

Use :- discontiguous main:generalize\_poly/8. to suppress this message

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:72:

Singleton variables: [EnforcedPhi]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:99:

Singleton variables: [Comp]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:227:

Local definition of generalization\_abstraction:firsts/2 overrides weak import from utils

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:265:

Singleton variables: [Sequence,TestedSequence]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:282:

Singleton variables: [M]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:285:

Singleton variables: [B]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:287:

Singleton variables: [A]

true.

7 ?- test\_class(8, 1000, 1).

Correct to: "main:test\_class(8,1000,1)"? yes

CurrentPhi : []

CurrentPhi : [g/2/0/[B-Q,D-M]]

CurrentPhi : [g/2/4/[B-N,D-T],g/5/0/[F-M,L-Q]]

CurrentPhi : [g/2/0/[B-Q,D-M],g/8/3/[I-X,K-P],g/5/4/[F-T,L-N]]

CurrentPhi : [g/2/4/[B-N,D-T],g/8/3/[I-X,K-P],g/7/1/[J-O,L-Q],g/5/0/[F-M,L-Q]]

CurrentPhi : [g/2/0/[B-Q,D-M],g/8/3/[I-X,K-P],h/13/9/[E-U,I-X,J-O],h/15/7/[A-S,F-T,L-N],g/5/4/[F-T,L-N]]

--------------Class 8, K = 1000 :

Time Results : [234-329-1]

Accuracy Results : [1]

Mean time results: 234-329-1

Mean accuracy results: 1

true .

8 ?- test\_class(8, 1000, 2).

Correct to: "main:test\_class(8,1000,2)"? yes

CurrentPhi : []

CurrentPhi : [f/1/0/[D-M]]

CurrentPhi : [f/1/3/[D-P],f/4/0/[I-M]]

CurrentPhi : [f/1/0/[D-M],f/2/6/[G-U],f/4/3/[I-P]]

CurrentPhi : [f/1/3/[D-P],f/2/6/[G-U],g/5/7/[B-R],f/4/0/[I-M]]

CurrentPhi : [f/1/0/[D-M],f/2/6/[G-U],g/5/7/[B-R],f/0/2/[A-O],f/4/3/[I-P]]

CurrentPhi : [f/1/3/[D-P],f/2/6/[G-U],g/5/7/[B-R],f/0/2/[A-O],f/3/4/[H-S],f/4/0/[I-M]]

CurrentPhi : [f/1/0/[D-M],f/2/6/[G-U],g/5/7/[B-R],f/0/2/[A-O],f/3/4/[H-S],g/10/9/[K-X,L-V],f/4/3/[I-P]]

CurrentPhi : [f/1/3/[D-P],f/2/6/[G-U],g/5/7/[B-R],f/0/2/[A-O],f/3/4/[H-S],g/10/9/[K-X,L-V],h/11/13/[A-O,E-T,H-S],f/4/0/[I-M]]

CurrentPhi : [h/12/13/[A-O,G-T,L-S],f/1/3/[D-P],g/5/7/[B-R],f/0/2/[A-O],f/4/0/[I-M],g/8/8/[H-U,K-V],h/16/14/[C-N,H-U,J-Q],f/3/6/[H-U],f/2/5/[G-T]]

CurrentPhi : []

CurrentPhi : [f/1/0/[H-N]]

CurrentPhi : [f/1/3/[H-W],f/0/0/[E-N]]

CurrentPhi : [f/1/0/[H-N],f/0/2/[E-U],g/4/4/[A-R,D-Q]]

CurrentPhi : [f/1/3/[H-W],f/0/2/[E-U],g/4/4/[A-R,D-Q],f/2/0/[K-N]]

CurrentPhi : [f/1/0/[H-N],f/0/2/[E-U],g/4/4/[A-R,D-Q],g/3/8/[B-X,C-P],f/2/3/[K-W]]

CurrentPhi : [f/1/3/[H-W],f/0/2/[E-U],g/4/4/[A-R,D-Q],g/3/8/[B-X,C-P],g/7/7/[E-U,J-V],f/2/0/[K-N]]

CurrentPhi : [g/9/4/[F-Q,H-R],f/0/2/[E-U],g/3/8/[B-X,C-P],g/7/7/[E-U,J-V],f/2/0/[K-N],g/6/6/[D-T,I-S],g/4/5/[A-M,D-T]]

CurrentPhi : [f/1/1/[H-P],f/0/2/[E-U],g/7/7/[E-U,J-V],f/2/0/[K-N],g/6/6/[D-T,I-S],g/4/5/[A-M,D-T],g/9/8/[F-X,H-P],g/3/4/[B-Q,C-R]]

--------------Class 8, K = 1000 :

Time Results : [250-6125-1,438-68375-1]

Accuracy Results : [1,1]

Mean time results: 344-37250-1

Mean accuracy results: 1

true .

9 ?- test\_class(8, 0, 2).

Correct to: "main:test\_class(8,0,2)"? yes

CurrentPhi : []

CurrentPhi : [f/3/1/[L-R]]

CurrentPhi : [f/4/3/[M-A1],f/3/1/[L-R]]

CurrentPhi : [f/0/2/[B-Y],f/4/3/[M-A1],f/3/1/[L-R]]

CurrentPhi : [g/7/8/[D-U,I-Z],f/0/2/[B-Y],f/4/3/[M-A1],f/3/1/[L-R]]

CurrentPhi : [f/5/0/[N-O],g/7/8/[D-U,I-Z],f/0/2/[B-Y],f/4/3/[M-A1],f/3/1/[L-R]]

CurrentPhi : [g/8/7/[E-W,H-T],f/5/0/[N-O],g/7/8/[D-U,I-Z],f/0/2/[B-Y],f/4/3/[M-A1],f/3/1/[L-R]]

CurrentPhi : []

CurrentPhi : [f/2/1/[H-Q]]

CurrentPhi : [f/1/4/[E-W],f/2/1/[H-Q]]

CurrentPhi : [g/9/8/[D-N,F-U],f/1/4/[E-W],f/2/1/[H-Q]]

CurrentPhi : [f/0/0/[B-O],g/9/8/[D-N,F-U],f/1/4/[E-W],f/2/1/[H-Q]]

CurrentPhi : [g/11/6/[A-S,I-M],f/0/0/[B-O],g/9/8/[D-N,F-U],f/1/4/[E-W],f/2/1/[H-Q]]

CurrentPhi : [f/4/3/[K-V],g/11/6/[A-S,I-M],f/0/0/[B-O],g/9/8/[D-N,F-U],f/1/4/[E-W],f/2/1/[H-Q]]

CurrentPhi : [f/5/5/[L-X],f/4/3/[K-V],g/11/6/[A-S,I-M],f/0/0/[B-O],g/9/8/[D-N,F-U],f/1/4/[E-W],f/2/1/[H-Q]]

CurrentPhi : [f/3/2/[J-T],f/5/5/[L-X],f/4/3/[K-V],g/11/6/[A-S,I-M],f/0/0/[B-O],g/9/8/[D-N,F-U],f/1/4/[E-W],f/2/1/[H-Q]]

CurrentPhi : [g/7/9/[C-R,J-T],f/3/2/[J-T],f/5/5/[L-X],f/4/3/[K-V],g/11/6/[A-S,I-M],f/0/0/[B-O],g/9/8/[D-N,F-U],f/1/4/[E-W],f/2/1/[H-Q]]

CurrentPhi : [g/15/11/[J-T,L-X],g/7/9/[C-R,J-T],f/3/2/[J-T],f/5/5/[L-X],f/4/3/[K-V],g/11/6/[A-S,I-M],f/0/0/[B-O],g/9/8/[D-N,F-U],f/1/4/[E-W],f/2/1/[H-Q]]

--------------Class 8, K = 0 :

Time Results : [94-163297-1,31-19391-1]

Accuracy Results : [0.9090909090909091,0.6666666666666666]

Mean time results: 62.5-91344-1

Mean accuracy results: 0.7878787878787878

true .

10 ?- test\_class(1, 0, 2).

Correct to: "main:test\_class(1,0,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/0/[A-B]]

CurrentPhi : [g/1/1/[A-B],f/0/0/[A-B]]

CurrentPhi : []

CurrentPhi : [f/0/0/[D-J]]

CurrentPhi : [g/2/2/[D-J,F-H],f/0/0/[D-J]]

--------------Class 1, K = 0 :

Time Results : [0-0-1,0-0-1]

Accuracy Results : [0.6666666666666666,1]

Mean time results: 0-0-1

Mean accuracy results: 0.8333333333333333

true .

11 ?- test\_class(1, 0, 2).

Correct to: "main:test\_class(1,0,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/0/[A-G]]

CurrentPhi : [h/4/3/[A-G,D-H,F-K],f/0/0/[A-G]]

CurrentPhi : []

CurrentPhi : [h/1/3/[A-H,B-I]]

CurrentPhi : [f/0/0/[C-G],h/1/3/[A-H,B-I]]

--------------Class 1, K = 0 :

Time Results : [0-0-1,0-0-1]

Accuracy Results : [1,1]

Mean time results: 0-0-1

Mean accuracy results: 1

true .

11 ?- test\_class(2, 0, 2).

Correct to: "main:test\_class(2,0,2)"? yes

CurrentPhi : []

CurrentPhi : [f/1/2/[E-L]]

CurrentPhi : [f/0/1/[A-K],f/1/2/[E-L]]

CurrentPhi : [g/5/4/[B-J,G-I],f/0/1/[A-K],f/1/2/[E-L]]

CurrentPhi : [g/3/3/[C-H,F-N],g/5/4/[B-J,G-I],f/0/1/[A-K],f/1/2/[E-L]]

CurrentPhi : [g/4/7/[C-H,D-M],g/3/3/[C-H,F-N],g/5/4/[B-J,G-I],f/0/1/[A-K],f/1/2/[E-L]]

CurrentPhi : []

CurrentPhi : [f/0/1/[F-J]]

CurrentPhi : [g/2/4/[C-I,G-L],f/0/1/[F-J]]

CurrentPhi : [g/3/3/[D-H,E-K],g/2/4/[C-I,G-L],f/0/1/[F-J]]

CurrentPhi : [g/4/5/[A-M,E-K],g/3/3/[D-H,E-K],g/2/4/[C-I,G-L],f/0/1/[F-J]]

--------------Class 2, K = 0 :

Time Results : [0-16-1,0-16-1]

Accuracy Results : [1,1]

Mean time results: 0-16-1

Mean accuracy results: 1

true .

12 ?- test\_class(3, 0, 2).

Correct to: "main:test\_class(3,0,2)"? yes

CurrentPhi : []

CurrentPhi : [f/1/3/[G-N]]

CurrentPhi : [f/0/0/[B-I],f/1/3/[G-N]]

CurrentPhi : [g/6/6/[C-O,D-K],f/0/0/[B-I],f/1/3/[G-N]]

CurrentPhi : [g/7/7/[E-L,F-J],g/6/6/[C-O,D-K],f/0/0/[B-I],f/1/3/[G-N]]

CurrentPhi : []

CurrentPhi : [f/0/0/[A-N]]

CurrentPhi : [g/5/3/[C-L,H-P],f/0/0/[A-N]]

CurrentPhi : [g/6/8/[D-Q,G-K],g/5/3/[C-L,H-P],f/0/0/[A-N]]

CurrentPhi : [g/7/6/[F-O,G-K],g/6/8/[D-Q,G-K],g/5/3/[C-L,H-P],f/0/0/[A-N]]

--------------Class 3, K = 0 :

Time Results : [0-0-1,0-15-1]

Accuracy Results : [1,0.8]

Mean time results: 0-7.5-1

Mean accuracy results: 0.9

true .

13 ?- test\_class(3, 1, 2).

Correct to: "main:test\_class(3,1,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/1/[B-M]]

CurrentPhi : [f/2/0/[E-I],f/0/1/[B-M]]

CurrentPhi : [f/4/3/[G-P],f/2/0/[E-I],f/0/1/[B-M]]

CurrentPhi : [g/6/6/[A-K,C-L],f/4/3/[G-P],f/2/0/[E-I],f/0/1/[B-M]]

CurrentPhi : [f/1/2/[D-N],g/6/6/[A-K,C-L],f/4/3/[G-P],f/2/0/[E-I],f/0/1/[B-M]]

CurrentPhi : [g/8/9/[D-N,H-J],f/1/2/[D-N],g/6/6/[A-K,C-L],f/4/3/[G-P],f/2/0/[E-I],f/0/1/[B-M]]

CurrentPhi : []

CurrentPhi : [f/1/0/[H-O]]

CurrentPhi : [f/0/1/[G-P],f/1/0/[H-O]]

CurrentPhi : [g/6/2/[C-K,D-L],f/0/1/[G-P],f/1/0/[H-O]]

CurrentPhi : [g/3/4/[A-N,I-M],g/6/2/[C-K,D-L],f/0/1/[G-P],f/1/0/[H-O]]

CurrentPhi : [g/2/5/[A-N,G-P],g/3/4/[A-N,I-M],g/6/2/[C-K,D-L],f/0/1/[G-P],f/1/0/[H-O]]

--------------Class 3, K = 1 :

Time Results : [15-31-1,0-203-1]

Accuracy Results : [1,1]

Mean time results: 7.5-117-1

Mean accuracy results: 1

true .

14 ?- test\_class(3, 1, 2).

Correct to: "main:test\_class(3,1,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/1/[C-L]]

CurrentPhi : [f/1/4/[G-P],f/0/1/[C-L]]

CurrentPhi : [f/2/2/[H-N],f/1/4/[G-P],f/0/1/[C-L]]

CurrentPhi : [g/3/7/[A-O,E-M],f/2/2/[H-N],f/1/4/[G-P],f/0/1/[C-L]]

CurrentPhi : [g/4/6/[A-O,I-J],g/3/7/[A-O,E-M],f/2/2/[H-N],f/1/4/[G-P],f/0/1/[C-L]]

CurrentPhi : []

CurrentPhi : [f/2/1/[F-O]]

CurrentPhi : [f/1/0/[E-J],f/2/1/[F-O]]

CurrentPhi : [g/4/5/[A-L,B-K],f/1/0/[E-J],f/2/1/[F-O]]

CurrentPhi : [g/7/6/[B-K,H-M],g/4/5/[A-L,B-K],f/1/0/[E-J],f/2/1/[F-O]]

CurrentPhi : [g/5/8/[C-P,G-I],g/7/6/[B-K,H-M],g/4/5/[A-L,B-K],f/1/0/[E-J],f/2/1/[F-O]]

--------------Class 3, K = 1 :

Time Results : [16-31-1,0-31-1]

Accuracy Results : [0.8333333333333334,1]

Mean time results: 8-31-1

Mean accuracy results: 0.9166666666666667

true .

14 ?- test\_class(3, 1, 2).

Correct to: "main:test\_class(3,1,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/1/[B-M]]

CurrentPhi : [f/1/3/[C-P],f/0/1/[B-M]]

CurrentPhi : [f/2/0/[F-I],f/1/3/[C-P],f/0/1/[B-M]]

CurrentPhi : [g/7/4/[A-O,G-K],f/2/0/[F-I],f/1/3/[C-P],f/0/1/[B-M]]

CurrentPhi : [g/4/5/[D-L,F-I],g/7/4/[A-O,G-K],f/2/0/[F-I],f/1/3/[C-P],f/0/1/[B-M]]

CurrentPhi : []

CurrentPhi : [f/3/2/[F-M]]

CurrentPhi : [f/0/0/[A-J],f/3/2/[F-M]]

CurrentPhi : [f/2/1/[E-K],f/0/0/[A-J],f/3/2/[F-M]]

CurrentPhi : [f/1/3/[D-O],f/2/1/[E-K],f/0/0/[A-J],f/3/2/[F-M]]

CurrentPhi : [g/4/5/[B-L,D-O],f/1/3/[D-O],f/2/1/[E-K],f/0/0/[A-J],f/3/2/[F-M]]

CurrentPhi : [g/6/6/[D-O,H-I],g/4/5/[B-L,D-O],f/1/3/[D-O],f/2/1/[E-K],f/0/0/[A-J],f/3/2/[F-M]]

--------------Class 3, K = 1 :

Time Results : [0-78-1,0-31-1]

Accuracy Results : [1,0.8333333333333334]

Mean time results: 0-54.5-1

Mean accuracy results: 0.9166666666666667

true .

14 ?- test\_class(3, 1, 2).

Correct to: "main:test\_class(3,1,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/2/[F-P]]

CurrentPhi : [f/1/0/[G-M],f/0/2/[F-P]]

CurrentPhi : [g/4/6/[C-O,F-P],f/1/0/[G-M],f/0/2/[F-P]]

CurrentPhi : [g/2/3/[B-I,D-L],g/4/6/[C-O,F-P],f/1/0/[G-M],f/0/2/[F-P]]

CurrentPhi : [g/3/5/[A-N,C-O],g/2/3/[B-I,D-L],g/4/6/[C-O,F-P],f/1/0/[G-M],f/0/2/[F-P]]

CurrentPhi : []

CurrentPhi : [f/0/0/[A-I]]

CurrentPhi : [f/2/1/[G-M],f/0/0/[A-I]]

CurrentPhi : [h/8/7/[B-J,C-N,D-L],f/2/1/[G-M],f/0/0/[A-I]]

--------------Class 3, K = 1 :

Time Results : [15-0-1,16-16-1]

Accuracy Results : [0.6,1]

Mean time results: 15.5-8-1

Mean accuracy results: 0.8

true .

14 ?- test\_class(3, 1, 2).

Correct to: "main:test\_class(3,1,2)"? yes

CurrentPhi : []

CurrentPhi : [g/2/7/[A-M]]

CurrentPhi : [f/0/1/[B-J],g/2/7/[A-M]]

CurrentPhi : [f/1/0/[D-I],f/0/1/[B-J],g/2/7/[A-M]]

CurrentPhi : [g/8/6/[C-P,H-L],f/1/0/[D-I],f/0/1/[B-J],g/2/7/[A-M]]

CurrentPhi : [g/5/5/[D-I,E-K],g/8/6/[C-P,H-L],f/1/0/[D-I],f/0/1/[B-J],g/2/7/[A-M]]

CurrentPhi : [g/3/8/[A-M,G-N],g/5/5/[D-I,E-K],g/8/6/[C-P,H-L],f/1/0/[D-I],f/0/1/[B-J],g/2/7/[A-M]]

CurrentPhi : []

CurrentPhi : [f/2/2/[F-P]]

CurrentPhi : [g/3/8/[A-L,B-Q],f/2/2/[F-P]]

CurrentPhi : [f/1/1/[E-N],g/3/8/[A-L,B-Q],f/2/2/[F-P]]

CurrentPhi : [f/0/0/[D-M],f/1/1/[E-N],g/3/8/[A-L,B-Q],f/2/2/[F-P]]

CurrentPhi : [g/6/4/[D-M,I-K],f/0/0/[D-M],f/1/1/[E-N],g/3/8/[A-L,B-Q],f/2/2/[F-P]]

--------------Class 3, K = 1 :

Time Results : [16-31-1,0-31-1]

Accuracy Results : [0.8333333333333334,0.8571428571428571]

Mean time results: 8-31-1

Mean accuracy results: 0.8452380952380952

true .

14 ?- test\_class(4, 1, 2).

Correct to: "main:test\_class(4,1,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/0/[A-L]]

CurrentPhi : [f/4/1/[I-N],f/0/0/[A-L]]

CurrentPhi : [f/3/2/[H-R],f/4/1/[I-N],f/0/0/[A-L]]

CurrentPhi : [g/5/6/[C-Q,D-K],f/3/2/[H-R],f/4/1/[I-N],f/0/0/[A-L]]

CurrentPhi : []

CurrentPhi : [f/0/2/[B-L]]

CurrentPhi : [f/2/3/[H-N],f/0/2/[B-L]]

CurrentPhi : [f/1/0/[E-J],f/2/3/[H-N],f/0/2/[B-L]]

CurrentPhi : [g/7/5/[G-M,H-N],f/1/0/[E-J],f/2/3/[H-N],f/0/2/[B-L]]

CurrentPhi : [g/4/6/[A-P,C-O],g/7/5/[G-M,H-N],f/1/0/[E-J],f/2/3/[H-N],f/0/2/[B-L]]

--------------Class 4, K = 1 :

Time Results : [0-94-1,16-46-1]

Accuracy Results : [0.8333333333333334,0.6666666666666666]

Mean time results: 8-70-1

Mean accuracy results: 0.75

true .

15 ?- test\_class(4, 10, 2).

Correct to: "main:test\_class(4,10,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/0/[B-J]]

CurrentPhi : [f/3/0/[I-J],f/0/1/[B-Q]]

CurrentPhi : [f/0/0/[B-J],g/9/4/[G-K,H-M],f/3/1/[I-Q]]

CurrentPhi : [f/3/0/[I-J],g/9/4/[G-K,H-M],g/5/5/[D-O,E-P],f/0/1/[B-Q]]

CurrentPhi : [f/1/1/[F-Q],f/3/0/[I-J],g/9/4/[G-K,H-M],g/5/5/[D-O,E-P],g/8/3/[F-Q,G-K]]

CurrentPhi : [f/0/0/[B-J],f/1/1/[F-Q],g/9/4/[G-K,H-M],g/5/5/[D-O,E-P],g/8/3/[F-Q,G-K],g/6/6/[E-P,F-Q]]

CurrentPhi : []

CurrentPhi : [f/1/0/[C-J]]

CurrentPhi : [f/2/0/[E-J],f/1/2/[C-O]]

CurrentPhi : [f/1/0/[C-J],g/5/5/[B-N,D-Q],f/2/2/[E-O]]

CurrentPhi : [f/2/0/[E-J],g/5/5/[B-N,D-Q],f/3/1/[F-L],f/1/2/[C-O]]

CurrentPhi : [f/1/0/[C-J],g/5/5/[B-N,D-Q],f/3/1/[F-L],h/10/9/[F-L,G-K,H-P],f/2/2/[E-O]]

--------------Class 4, K = 10 :

Time Results : [32-78-1,47-31-1]

Accuracy Results : [1,1]

Mean time results: 39.5-54.5-1

Mean accuracy results: 1

true ;

Mean time results: 39.5-39.5-1

Mean accuracy results: 1

true .

16 ?- test\_class(4, 2, 2).

Correct to: "main:test\_class(4,2,2)"? yes

CurrentPhi : []

CurrentPhi : [f/1/1/[F-L]]

CurrentPhi : [f/1/0/[F-J],f/0/1/[E-L]]

CurrentPhi : [f/2/0/[H-J],f/0/1/[E-L],g/6/4/[A-M,C-Q]]

CurrentPhi : [f/1/1/[F-L],f/2/0/[H-J],g/6/4/[A-M,C-Q],g/5/3/[B-N,I-O]]

CurrentPhi : [f/0/0/[E-J],f/1/1/[F-L],g/6/4/[A-M,C-Q],g/5/3/[B-N,I-O],g/3/2/[A-M,G-R]]

CurrentPhi : [f/2/0/[H-J],f/1/1/[F-L],g/6/4/[A-M,C-Q],g/5/3/[B-N,I-O],g/3/2/[A-M,G-R],g/7/6/[B-N,G-R]]

CurrentPhi : []

CurrentPhi : [g/4/3/[C-M,D-P]]

CurrentPhi : [g/4/4/[C-N,D-Q],g/7/3/[E-M,H-P]]

CurrentPhi : [h/9/7/[B-Q,D-L,F-K],g/7/3/[E-M,H-P],g/3/4/[B-Q,I-N]]

CurrentPhi : [g/6/1/[C-O,H-J],h/9/7/[B-Q,D-L,F-K],g/3/4/[B-Q,I-N],g/8/0/[H-J,I-N]]

--------------Class 4, K = 2 :

Time Results : [15-16-1,0-125-1]

Accuracy Results : [1,1]

Mean time results: 7.5-70.5-1

Mean accuracy results: 1

true .

17 ?- test\_class(4, 1, 2).

Correct to: "main:test\_class(4,1,2)"? yes

CurrentPhi : []

CurrentPhi : [f/3/2/[I-O]]

CurrentPhi : [f/2/0/[H-K],f/3/2/[I-O]]

CurrentPhi : [f/0/1/[B-L],f/2/0/[H-K],f/3/2/[I-O]]

CurrentPhi : [f/1/3/[G-P],f/0/1/[B-L],f/2/0/[H-K],f/3/2/[I-O]]

CurrentPhi : [g/5/6/[F-N,I-O],f/1/3/[G-P],f/0/1/[B-L],f/2/0/[H-K],f/3/2/[I-O]]

CurrentPhi : [g/6/7/[A-J,G-P],g/5/6/[F-N,I-O],f/1/3/[G-P],f/0/1/[B-L],f/2/0/[H-K],f/3/2/[I-O]]

CurrentPhi : [h/10/12/[C-Q,F-N,G-P],g/6/7/[A-J,G-P],g/5/6/[F-N,I-O],f/1/3/[G-P],f/0/1/[B-L],f/2/0/[H-K],f/3/2/[I-O]]

CurrentPhi : []

CurrentPhi : [f/1/1/[C-L]]

CurrentPhi : [f/2/4/[F-Q],f/1/1/[C-L]]

CurrentPhi : [f/0/0/[B-J],f/2/4/[F-Q],f/1/1/[C-L]]

CurrentPhi : [g/5/6/[H-O,I-P],f/0/0/[B-J],f/2/4/[F-Q],f/1/1/[C-L]]

--------------Class 4, K = 1 :

Time Results : [0-47-1,31-203-1]

Accuracy Results : [0.8,1]

Mean time results: 15.5-125-1

Mean accuracy results: 0.9

true .

18 ?- test\_class(4, 1, 2).

Correct to: "main:test\_class(4,1,2)"? yes

CurrentPhi : []

CurrentPhi : [f/1/4/[G-Q]]

CurrentPhi : [f/0/2/[B-M],f/1/4/[G-Q]]

CurrentPhi : [f/2/0/[I-J],f/0/2/[B-M],f/1/4/[G-Q]]

CurrentPhi : [g/6/6/[B-M,E-P],f/2/0/[I-J],f/0/2/[B-M],f/1/4/[G-Q]]

CurrentPhi : []

CurrentPhi : [f/0/2/[A-N]]

CurrentPhi : [f/2/1/[D-L],f/0/2/[A-N]]

CurrentPhi : [f/3/4/[E-P],f/2/1/[D-L],f/0/2/[A-N]]

CurrentPhi : [f/4/5/[H-R],f/3/4/[E-P],f/2/1/[D-L],f/0/2/[A-N]]

CurrentPhi : [f/1/3/[C-O],f/4/5/[H-R],f/3/4/[E-P],f/2/1/[D-L],f/0/2/[A-N]]

--------------Class 4, K = 1 :

Time Results : [0-422-1,0-62-1]

Accuracy Results : [0.8333333333333334,0.8]

Mean time results: 0-242-1

Mean accuracy results: 0.8166666666666667

true .

18 ?- consult(['main', 'db', 'generalization\_abstraction']).

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:59:

Singleton variables: [L1,L2]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:104:

Singleton variables: [CurrentRho,ZippedCurrentGen,TotalMatrix,TotalMatrixScores,Matrix,MatrixScores]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:136:

Clauses of main:generalize\_poly/8 are not together in the source-file

Earlier definition at c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:101

Current predicate: main:gp/8

Use :- discontiguous main:generalize\_poly/8. to suppress this message

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:72:

Singleton variables: [EnforcedPhi]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:99:

Singleton variables: [Comp]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:227:

Local definition of generalization\_abstraction:firsts/2 overrides weak import from utils

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:265:

Singleton variables: [Sequence,TestedSequence]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:282:

Singleton variables: [M]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:285:

Singleton variables: [B]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:287:

Singleton variables: [A]

true.

19 ?- test\_class(4, 1, 2).

Correct to: "main:test\_class(4,1,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/0/[B-L]]

CurrentPhi : [f/0/1/[B-M],f/2/0/[G-L]]

CurrentPhi : [f/1/0/[E-L],f/0/1/[B-M],f/2/3/[G-Q]]

CurrentPhi : [f/2/2/[G-P],f/1/0/[E-L],f/0/1/[B-M],g/9/4/[A-O,J-N]]

CurrentPhi : [f/0/3/[B-Q],f/2/2/[G-P],f/1/0/[E-L],g/9/4/[A-O,J-N],g/6/11/[D-K,H-T]]

CurrentPhi : [f/0/1/[B-M],f/2/2/[G-P],f/1/0/[E-L],g/9/4/[A-O,J-N],g/6/11/[D-K,H-T],g/5/9/[C-R,I-Q]]

CurrentPhi : []

CurrentPhi : [f/1/3/[D-R]]

CurrentPhi : [f/1/2/[D-Q],g/8/7/[D-Q]]

CurrentPhi : [f/2/3/[I-R],f/1/2/[D-Q],g/8/7/[D-Q]]

CurrentPhi : [f/3/3/[J-R],f/1/2/[D-Q],g/8/7/[D-Q],f/2/0/[I-L]]

CurrentPhi : [f/2/4/[I-S],f/3/3/[J-R],f/1/2/[D-Q],g/8/7/[D-Q],f/0/0/[C-L]]

CurrentPhi : [f/2/1/[I-N],f/3/3/[J-R],f/1/2/[D-Q],g/8/7/[D-Q],f/0/0/[C-L],g/9/9/[G-O,H-T]]

CurrentPhi : [f/2/4/[I-S],f/3/3/[J-R],f/1/2/[D-Q],g/8/7/[D-Q],f/0/0/[C-L],g/9/9/[G-O,H-T],g/5/5/[B-M,H-T]]

--------------Class 4, K = 1 :

Time Results : [47-2313-1,47-2562-1]

Accuracy Results : [0.875,0.75]

Mean time results: 47-2437.5-1

Mean accuracy results: 0.8125

true .

20 ?- test\_class(4, 0, 2).

Correct to: "main:test\_class(4,0,2)"? yes

CurrentPhi : []

CurrentPhi : [f/0/4/[E-S]]

CurrentPhi : [f/1/1/[H-M],f/0/4/[E-S]]

CurrentPhi : [f/2/5/[I-T],f/1/1/[H-M],f/0/4/[E-S]]

CurrentPhi : [g/3/6/[A-N,D-K],f/2/5/[I-T],f/1/1/[H-M],f/0/4/[E-S]]

CurrentPhi : [g/10/9/[F-L,J-Q],g/3/6/[A-N,D-K],f/2/5/[I-T],f/1/1/[H-M],f/0/4/[E-S]]

CurrentPhi : []

CurrentPhi : [f/0/0/[A-M]]

CurrentPhi : [f/5/2/[J-W],f/0/0/[A-M]]

CurrentPhi : [g/11/7/[H-V,K-Q],f/5/2/[J-W],f/0/0/[A-M]]

CurrentPhi : [f/1/3/[B-X],g/11/7/[H-V,K-Q],f/5/2/[J-W],f/0/0/[A-M]]

CurrentPhi : [f/2/1/[C-R],f/1/3/[B-X],g/11/7/[H-V,K-Q],f/5/2/[J-W],f/0/0/[A-M]]

CurrentPhi : [g/8/9/[D-U,G-N],f/2/1/[C-R],f/1/3/[B-X],g/11/7/[H-V,K-Q],f/5/2/[J-W],f/0/0/[A-M]]

CurrentPhi : [g/9/5/[C-R,G-N],g/8/9/[D-U,G-N],f/2/1/[C-R],f/1/3/[B-X],g/11/7/[H-V,K-Q],f/5/2/[J-W],f/0/0/[A-M]]

--------------Class 4, K = 0 :

Time Results : [16-3125-1,16-1703-1]

Accuracy Results : [0.875,0.625]

Mean time results: 16-2414-1

Mean accuracy results: 0.75

true .

21 ?- consult(['main', 'db', 'generalization\_abstraction']).

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:59:

Singleton variables: [L1,L2,MAXGEN,McgVarsMapping]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:104:

Singleton variables: [CurrentRho,ZippedCurrentGen,TotalMatrix,TotalMatrixScores,Matrix,MatrixScores]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:136:

Clauses of main:generalize\_poly/8 are not together in the source-file

Earlier definition at c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:101

Current predicate: main:gp/8

Use :- discontiguous main:generalize\_poly/8. to suppress this message

ERROR: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:65:3: Syntax error: Operator expected

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:72:

Singleton variables: [EnforcedPhi]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:99:

Singleton variables: [Comp]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:227:

Local definition of generalization\_abstraction:firsts/2 overrides weak import from utils

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:265:

Singleton variables: [Sequence,TestedSequence]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:282:

Singleton variables: [M]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:285:

Singleton variables: [B]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:287:

Singleton variables: [A]

true.

22 ?- consult(['main', 'db', 'generalization\_abstraction']).

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:59:

Singleton variables: [L1,L2,MAXGEN,McgVarsMapping]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:104:

Singleton variables: [CurrentRho,ZippedCurrentGen,TotalMatrix,TotalMatrixScores,Matrix,MatrixScores]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:136:

Clauses of main:generalize\_poly/8 are not together in the source-file

Earlier definition at c:/users/user/owncloud/github/algorithmicequivalence/src/main.pl:101

Current predicate: main:gp/8

Use :- discontiguous main:generalize\_poly/8. to suppress this message

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:72:

Singleton variables: [EnforcedPhi]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:99:

Singleton variables: [Comp]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:227:

Local definition of generalization\_abstraction:firsts/2 overrides weak import from utils

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:265:

Singleton variables: [Sequence,TestedSequence]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:282:

Singleton variables: [M]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:285:

Singleton variables: [B]

Warning: c:/users/user/owncloud/github/algorithmicequivalence/src/generalization\_abstraction.pl:287:

Singleton variables: [A]

true.

22 ?- test\_class(4, 1, 2).

Correct to: "main:test\_class(4,1,2)"? yes

--------------Class 4, K = 1 :

Time Results : [31-3688-40078,31-1328-3282]

Accuracy Results : [1,1]

Mean time results: 31-2508-21680

Mean accuracy results: 1

true .

23 ?- test\_class(1, 0, 100).

Correct to: "main:test\_class(1,0,100)"? yes

--------------Class 1, K = 0 :

Time Results : [0-0-0,0-16-47,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-31,0-0-0,0-0-0,0-16-0,0-0-0,0-0-0,0-0-0,0-16-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-46]

Accuracy Results : [1,0.8,1,1,1,1,1,1,0.6,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,0.6666666666666666,1,1,0.75,1,0.75,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,0.75,1,1,1,1,1,1,1,1,0.8,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,0.8]

Mean time results: 0.31-0.48-2.49

Mean accuracy results: 0.9666666666666667

true .

24 ?- test\_class(1, 0, 100).

Correct to: "main:test\_class(1,0,100)"? yes

--------------Class 1, K = 0 :

Time Results : [0-0-0,0-16-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-31,0-0-16,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-16-78,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-16,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,16-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-15,0-0-0,0-0-0,0-0-0,0-16-78,15-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-0-0,0-15-16,0-0-0,0-16-16,0-0-0,0-0-0,0-0-0]

Accuracy Results : [1,1,1,1,1,1,1,0.5,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8333333333333334,1,1,1,1,1,1,0.8,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,0.8,1,1,1,0.8333333333333334,1,1,1,1,0.75,1,0.75,1,0.8,1,1,1,1,1]

Mean time results: 0.46-0.79-3.6

Mean accuracy results: 0.9673333333333332

true .

24 ?- test\_class(1, 0, 10000).

Correct to: "main:test\_class(1,0,10000)"? yes

--------------Class 1, K = 0 :

Time Results : 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Accuracy Results : [1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8333333333333334,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,0.8,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,0.6666666666666666,1,1,1,1,1,0.8,0.75,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6,1,1,1,0.8,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8,1,1,1,0.8,1,1,0.6666666666666666,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8,1,1,0.8,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,0.8,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,0.75,1,0.75,1,0.75,1,0.6666666666666666,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,0.6,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,0.75,1,1,0.75,1,1,1,1,1,1,0.75,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,0.8,1,0.8,1,1,1,1,0.8,0.6666666666666666,1,1,1,1,0.8,1,0.6666666666666666,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,0.75,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8,1,1,1,1,0.75,1,1,1,1,1,1,1,0.8,0.75,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,0.6666666666666666,1,1,1,1,0.75,1,0.6666666666666666,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,0.75,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,0.75,0.8333333333333334,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,0.75,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,0.5,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,0.8,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,0.6666666666666666,0.6666666666666666,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,0.8333333333333334,1,1,1,1,1,1,1,1,1,0.75,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,0.6666666666666666,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8333333333333334,0.75,1,1,1,1,1,1,1,1,0.6666666666666666,1,0.8,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,0.8,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8333333333333334,1,1,1,0.75,1,0.6666666666666666,1,1,1,1,1,1,0.75,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,0.8,1,0.75,1,1,1,1,0.8,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,0.8333333333333334,1,1,1,1,1,0.8,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,0.8333333333333334,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6,0.5,0.8,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,1,0.75,1,1,0.8,1,1,1,1,0.6666666666666666,1,0.6666666666666666,1,1,0.75,1,1,0.75,1,1,0.6666666666666666,1,0.6666666666666666,0.6,1,0.8,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,0.8,1,1,0.6666666666666666,1,1,1,0.8,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,0.5,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8333333333333334,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,0.8333333333333334,1,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.8,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,0.75,1,1,0.8,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,0.8333333333333334,1,1,1,1,1,0.75,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,0.8,1,1,1,1,1,1,1,1,1,1,1,1,0.75,0.75,1,1,0.8,1,1,0.75,0.75,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.75,0.8,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0.6666666666666666,1,1,1,1,1,1,1,1,1,1,1,1,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Mean time results: 0.4824-1.1167-4.6561

Mean accuracy results: 0.974464523809526

true .

25 ?- test\_class(2, 0, 1000).

Correct to: "main:test\_class(2,0,1000)"? yes

--------------Class 2, K = 0 :

Time Results : 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Accuracy Results : [0.7142857142857143,0.6666666666666666,0.7142857142857143,0.8,1,0.8333333333333334,0.7142857142857143,0.8571428571428571,0.6666666666666666,1,0.6666666666666666,0.8,1,0.6666666666666666,1,0.8,0.75,0.8333333333333334,0.8,0.7142857142857143,0.8571428571428571,1,1,0.6666666666666666,1,0.7142857142857143,0.8571428571428571,0.6666666666666666,0.8333333333333334,0.6,0.75,1,0.8333333333333334,0.8333333333333334,0.8,0.6666666666666666,1,1,0.75,1,0.8571428571428571,0.8333333333333334,1,1,0.8333333333333334,0.6666666666666666,0.8,0.8,0.6666666666666666,0.8,0.8,0.8,0.8,0.8333333333333334,0.8,0.8333333333333334,0.8888888888888888,0.7142857142857143,0.6,1,0.8,0.8,0.8,0.8571428571428571,0.8,0.7142857142857143,1,0.8333333333333334,0.8333333333333334,0.8,0.8,1,1,1,1,1,0.75,0.8,0.8333333333333334,0.8,1,1,0.8571428571428571,1,1,0.6666666666666666,1,1,0.8,0.75,0.6666666666666666,1,0.8333333333333334,0.8333333333333334,0.8,1,1,1,1,1,0.8,0.8,0.8333333333333334,1,0.8333333333333334,0.6666666666666666,0.6666666666666666,0.8571428571428571,0.8571428571428571,0.8571428571428571,1,1,1,0.6,1,1,0.75,0.7142857142857143,0.6666666666666666,0.75,0.8,0.75,0.8,1,0.8333333333333334,0.8571428571428571,1,0.8333333333333334,0.8571428571428571,1,0.8333333333333334,0.6666666666666666,1,0.6,0.7142857142857143,1,0.6666666666666666,0.8,1,0.6666666666666666,0.8333333333333334,1,1,1,0.8333333333333334,0.8333333333333334,1,1,0.8571428571428571,0.6666666666666666,0.8333333333333334,1,0.8333333333333334,0.7777777777777778,0.8571428571428571,0.6666666666666666,1,0.8,0.7142857142857143,0.8333333333333334,0.8,0.8333333333333334,0.6666666666666666,0.8,0.8571428571428571,0.8333333333333334,0.8571428571428571,0.6,0.5714285714285714,0.8333333333333334,0.8,1,0.8571428571428571,0.8571428571428571,1,0.8,0.8571428571428571,0.8,0.8,0.8333333333333334,0.8333333333333334,0.8,1,0.6666666666666666,0.75,0.8333333333333334,1,0.8,0.8333333333333334,0.8,1,0.8,0.8,0.6666666666666666,0.8,1,1,0.8333333333333334,0.8333333333333334,1,0.7142857142857143,0.5714285714285714,0.8,0.6666666666666666,0.8571428571428571,0.6666666666666666,0.8333333333333334,0.8333333333333334,0.8571428571428571,1,0.8571428571428571,1,0.8,0.8,0.8333333333333334,1,0.8,0.8571428571428571,0.75,0.5714285714285714,0.8333333333333334,0.7142857142857143,0.6,1,0.8571428571428571,1,1,0.8571428571428571,0.7142857142857143,1,0.8,0.7142857142857143,0.8333333333333334,0.8333333333333334,0.8,0.8333333333333334,0.8571428571428571,0.6666666666666666,1,0.7142857142857143,1,0.8,1,0.7142857142857143,1,0.75,0.8,0.8,0.8333333333333334,1,0.8333333333333334,0.8,1,0.8333333333333334,0.6,0.8,0.75,0.8571428571428571,0.875,0.7142857142857143,0.8571428571428571,1,0.8,0.7142857142857143,0.8333333333333334,1,1,0.625,0.8333333333333334,0.7142857142857143,1,0.8333333333333334,0.7142857142857143,0.8,0.8,1,0.5714285714285714,1,1,0.7142857142857143,1,1,1,0.8333333333333334,0.8,0.8571428571428571,0.8333333333333334,0.8,1,1,0.8333333333333334,0.8571428571428571,1,0.6,0.8571428571428571,0.8,0.8,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.6666666666666666,1,0.8571428571428571,0.8,0.8571428571428571,0.8333333333333334,0.7142857142857143,1,0.8333333333333334,0.5714285714285714,0.8,1,1,0.8333333333333334,1,0.8,0.8333333333333334,0.8,0.8,0.8333333333333334,0.8333333333333334,1,1,1,0.8333333333333334,0.8333333333333334,0.8333333333333334,1,0.8333333333333334,0.8,0.8333333333333334,0.6,1,0.5,0.8333333333333334,1,0.8,1,1,0.8,1,0.8,0.8333333333333334,0.75,0.8571428571428571,0.8333333333333334,0.8571428571428571,0.8,0.6666666666666666,1,1,0.8,0.8333333333333334,0.8,0.6666666666666666,0.8,1,0.8571428571428571,1,0.8333333333333334,1,0.8571428571428571,1,0.75,1,1,0.6666666666666666,0.75,0.8333333333333334,0.8,1,0.8333333333333334,0.8,0.8333333333333334,0.6666666666666666,0.8,0.8333333333333334,0.8,0.8333333333333334,1,1,0.8,1,0.8333333333333334,0.6666666666666666,1,0.8571428571428571,1,0.8,0.8,1,0.7142857142857143,0.6666666666666666,1,0.8333333333333334,0.8571428571428571,1,0.8333333333333334,0.8,0.8571428571428571,0.8,1,1,0.6,0.8,1,1,0.8,0.8,0.8333333333333334,1,0.6666666666666666,0.6666666666666666,1,1,0.8,0.6666666666666666,1,0.875,1,0.8333333333333334,0.6666666666666666,0.6666666666666666,1,0.8,0.8,0.8,0.8333333333333334,0.8,0.8,0.8,0.8,0.8,1,1,1,0.8333333333333334,0.7142857142857143,0.8,1,0.6666666666666666,0.6666666666666666,0.8,0.7142857142857143,1,0.875,0.8,0.8333333333333334,0.8333333333333334,0.6666666666666666,0.8333333333333334,1,1,1,1,0.8,1,0.8,0.8333333333333334,0.8,0.6666666666666666,1,1,0.8333333333333334,1,0.8,1,1,1,0.8333333333333334,0.8333333333333334,0.7142857142857143,0.8571428571428571,0.8571428571428571,1,0.8333333333333334,0.6666666666666666,0.8333333333333334,1,0.6,0.8333333333333334,0.8333333333333334,1,0.8,1,1,1,0.8571428571428571,0.6,0.8333333333333334,0.8,1,1,1,0.6666666666666666,1,0.7142857142857143,1,0.8,1,1,0.6666666666666666,0.8,1,1,1,1,0.6,0.8333333333333334,1,0.875,0.8,0.8,1,0.8,0.8333333333333334,0.7142857142857143,0.8333333333333334,1,1,1,0.8,1,0.8333333333333334,0.8333333333333334,0.8,0.8,1,1,1,0.7142857142857143,0.8,0.75,0.8333333333333334,1,1,0.8333333333333334,1,0.8333333333333334,1,0.8,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.6666666666666666,1,0.8333333333333334,0.8333333333333334,1,0.75,1,0.75,0.6,0.8333333333333334,1,0.8571428571428571,0.8333333333333334,0.8333333333333334,1,0.8,0.8333333333333334,0.6666666666666666,0.8333333333333334,1,0.6,0.875,0.8571428571428571,0.8,0.7142857142857143,0.75,1,0.8333333333333334,0.8,0.5,1,0.8333333333333334,0.6,0.8333333333333334,0.8571428571428571,1,0.6666666666666666,1,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.8,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.75,1,0.8,0.6666666666666666,0.7142857142857143,0.8333333333333334,0.8,0.8,0.75,1,1,0.75,0.8333333333333334,1,1,0.8333333333333334,0.7142857142857143,0.8,1,0.75,0.8571428571428571,0.6666666666666666,1,1,0.8333333333333334,1,0.8333333333333334,0.8333333333333334,0.8,0.8333333333333334,1,0.8,0.75,0.8333333333333334,0.75,1,1,0.7142857142857143,1,0.8333333333333334,0.8571428571428571,0.6666666666666666,0.8,0.8,0.7142857142857143,0.8,1,0.8333333333333334,0.7142857142857143,0.875,1,1,0.8333333333333334,1,0.8,0.8333333333333334,0.8571428571428571,0.7142857142857143,1,1,0.8333333333333334,0.6666666666666666,0.8,0.8333333333333334,0.8,0.8333333333333334,0.7142857142857143,0.7142857142857143,0.7142857142857143,0.6,1,0.8333333333333334,0.6666666666666666,0.8,0.7142857142857143,0.8,1,1,0.6,0.8333333333333334,0.8,0.8333333333333334,0.8333333333333334,0.6666666666666666,0.7142857142857143,0.8571428571428571,0.8,1,0.7142857142857143,0.8333333333333334,1,0.8,0.8333333333333334,1,0.6,0.6666666666666666,0.6666666666666666,0.6666666666666666,0.8333333333333334,1,0.8333333333333334,0.8333333333333334,0.8,0.8,0.8333333333333334,1,0.8333333333333334,0.8333333333333334,1,1,0.8333333333333334,1,1,0.6,1,0.8333333333333334,0.7142857142857143,0.75,0.75,0.6666666666666666,1,1,0.8571428571428571,1,1,1,0.8333333333333334,1,1,0.8333333333333334,1,0.8333333333333334,1,0.8571428571428571,1,0.8333333333333334,0.8,0.8333333333333334,0.8571428571428571,1,1,0.8333333333333334,0.6666666666666666,1,0.8333333333333334,0.6666666666666666,0.8,0.75,0.6666666666666666,0.6666666666666666,0.8,0.8571428571428571,0.8,0.8,0.6666666666666666,0.6666666666666666,0.7142857142857143,0.8,0.8333333333333334,0.8571428571428571,1,0.5714285714285714,1,1,1,0.8,0.8333333333333334,1,0.8333333333333334,1,0.8333333333333334,0.8333333333333334,0.6,0.8,1,0.7142857142857143,1,1,0.8571428571428571,1,0.8333333333333334,0.8571428571428571,1,0.8333333333333334,0.8333333333333334,0.8,0.875,1,0.6666666666666666,0.7142857142857143,0.8,0.8,1,0.8,0.8333333333333334,0.8,1,1,0.8571428571428571,0.8,0.8333333333333334,0.6666666666666666,1,1,0.8333333333333334,0.6666666666666666,0.7142857142857143,0.8333333333333334,0.8333333333333334,0.6666666666666666,1,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.75,1,0.6666666666666666,1,0.8333333333333334,0.8,0.8571428571428571,0.8333333333333334,1,0.8333333333333334,0.7142857142857143,0.42857142857142855,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.6666666666666666,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.8,0.6666666666666666,0.7142857142857143,0.8333333333333334,1,0.8571428571428571,0.8333333333333334,1,0.8,0.8333333333333334,0.8,0.6666666666666666,0.8333333333333334,0.75,1,0.8,0.6,0.8333333333333334,1,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.8571428571428571,0.6666666666666666,0.8333333333333334,0.6,0.8,0.8333333333333334,0.8333333333333334,0.7142857142857143,1,1,0.6666666666666666,0.7142857142857143,1,1,0.75,0.7142857142857143,0.7142857142857143,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.875,1,1,0.8333333333333334,0.8571428571428571,0.8333333333333334,1,1,0.8,0.8571428571428571,0.8571428571428571,1,0.75,0.8,0.8333333333333334,0.8571428571428571,0.8,0.6666666666666666,0.8571428571428571,0.8333333333333334,0.8571428571428571,1,1,0.8571428571428571,0.6666666666666666,0.8333333333333334,0.8333333333333334,1,1,0.8333333333333334,1,0.7142857142857143,1,1,1,0.6666666666666666,1,0.8,0.75,0.8333333333333334,0.8,1,0.7142857142857143,0.8333333333333334,1,1,1,1,0.7142857142857143,0.6,1,1,0.8333333333333334,0.6666666666666666,0.8333333333333334,1,1,1,0.8571428571428571,0.75,1,0.8,1,0.8333333333333334,0.6666666666666666,0.7142857142857143,0.7142857142857143,0.8571428571428571,0.8571428571428571,0.8333333333333334,1,1,1,0.6666666666666666,0.6,1,0.8571428571428571,0.7142857142857143,1,1,1,0.75,0.8571428571428571,1,1,0.8333333333333334,0.8333333333333334,0.8,0.8333333333333334,1,0.8571428571428571,0.8333333333333334,1,1,1,1,0.7142857142857143,0.8333333333333334,0.8333333333333334,0.8571428571428571,0.8,1,0.7142857142857143,1,1,0.6666666666666666,1,0.75,0.8571428571428571,0.8,1,0.8333333333333334,1,0.8333333333333334,0.6666666666666666,0.7142857142857143,0.8,0.8,0.8333333333333334,1,1,1,0.8333333333333334,0.6666666666666666,0.6666666666666666,0.8333333333333334,0.8333333333333334,0.8571428571428571,0.875,0.8333333333333334,1]

Mean time results: 7.762-154.563-639.154

Mean accuracy results: 0.848119047619048

true .

26 ?- test\_class(3, 0, 500).

Correct to: "main:test\_class(3,0,500)"? yes

--------------Class 3, K = 0 :

Time Results : [16-47-281,15-188-547,15-78-250,16-31-328,16-3250-12609,16-171-1297,0-594-1516,0-484-1500,0-1797-4391,16-94-1000,0-47-94,0-157-562,15-172-2250,0-984-9860,15-407-1000,15-1157-18968,0-344-547,16-203-1078,0-31-219,16-31-203,0-63-218,16-531-2375,15-172-594,0-78-219,0-78-266,16-547-3812,15-2703-29297,15-172-625,15-63-437,16-390-4281,0-875-2906,16-78-406,16-219-390,0-187-625,16-2265-49094,0-1250-2750,16-203-1219,15-172-531,0-94-250,16-2140-8172,15-875-13328,15-578-3000,47-21750-119531,0-1500-10468,0-1937-6282,15-235-1000,0-172-562,15-1078-2969,0-46-94,32-78-172,16-219-593,0-860-1281,0-16-62,15-469-4016,16-578-10203,0-312-1250,0-1609-3891,0-31-31,16-1438-3890,16-1312-3297,16-140-438,0-547-2078,0-547-6922,16-10625-19937,0-141-328,0-188-1468,16-93-407,16-93-1313,0-62-141,15-344-906,0-125-375,0-219-797,0-3500-10250,16-2203-8016,16-109-266,0-94-281,15-63-4844,0-266-875,0-641-6547,16-578-1843,16-422-1219,16-109-1094,16-94-172,0-63-422,31-2703-18516,47-109-203,31-125-281,15-594-17203,0-141-422,0-109-313,15-3813-12172,0-344-859,16-546-10032,16-62-156,0-1188-2219,15-2000-26063,16-265-672,16-47-234,15-1094-3688,16-187-1078,0-109-188,15-125-422,16-140-250,16-516-5156,15-1453-7188,15-125-453,15-266-812,16-93-282,15-203-610,16-94-1703,16-187-563,15-578-1844,15-1094-5906,0-188-828,16-578-1375,0-312-1375,0-78-204,0-375-1641,0-1031-4422,15-219-625,0-125-453,15-281-813,0-312-1453,16-547-1843,16-47-94,0-140-641,0-390-1016,0-31-78,16-531-5000,16-2234-13344,16-375-3062,16-1047-4031,15-63-953,15-469-1266,15-1360-34000,15-375-1047,15-172-563,0-266-843,0-47-94,0-297-1016,0-1093-3125,31-172-1094,15-141-1031,0-156-829,16-343-891,31-657-2640,0-31-156,0-844-10781,15-157-421,16-156-1031,0-281-813,15-172-453,15-141-406,0-828-11719,16-1906-4688,0-31-31,15-328-7891,15-78-282,16-609-1625,16-516-1593,16-78-156,15-188-1484,0-31-62,0-47-94,31-3281-5281,0-468-954,0-62-266,0-156-703,15-250-3985,0-203-2750,16-375-3312,0-187-829,16-359-2828,16-234-485,0-1422-4468,0-406-922,16-1250-9984,0-625-1953,15-204-546,0-313-547,16-1734-4875,16-422-5109,16-94-234,16-1984-26641,0-203-860,0-31-94,16-156-1000,15-94-891,0-1329-18890,0-234-1125,0-47-78,15-282-2156,15-78-219,16-359-1297,16-171-719,15-32-46,16-94-375,16-109-156,15-47-172,16-406-1000,0-172-1047,16-296-985,16-18250-132312,16-484-2141,0-93-250,0-1688-25515,15-110-312,16-172-422,0-438-1000,16-78-141,0-125-375,32-46-860,0-484-1610,0-31-531,16-250-500,16-1453-7219,31-1297-6875,15-360-2765,16-78-172,0-641-2625,0-31-47,16-672-1968,15-78-266,0-235-1421,15-78-407,16-265-750,0-78-375,15-125-375,15-63-94,15-188-656,0-188-2875,15-313-2969,15-78-532,15-485-2031,16-375-906,16-2906-4547,16-94-468,16-109-828,15-172-375,0-110-203,16-656-8500,0-282-515,0-187-1235,0-1031-7391,15-375-1250,0-79-406,15-125-360,0-125-1828,15-79-234,15-1297-1719,31-297-375,16-16-62,15-328-1063,15-469-1297,0-110-1046,0-312-1000,16-688-2921,0-1266-6203,15-31-141,0-250-703,15-922-2688,15-94-344,15-47-188,0-109-250,0-594-2437,15-407-3812,16-375-1453,16-437-3297,0-391-1328,0-109-407,16-1187-6297,16-94-140,16-125-453,0-234-2094,16-141-1093,15-141-265,15-438-4718,0-62-1016,16-31-94,16-359-1282,16-1406-5672,16-828-2031,32-156-234,16-265-2719,15-125-422,15-407-1250,0-297-1985,0-547-1844,0-297-1734,16-453-1312,31-328-1187,15-282-1765,15-594-1656,16-203-610,16-391-1078,0-63-109,15-860-2218,15-250-875,0-78-532,15-250-5594,16-141-406,16-156-703,16-9469-32890,0-47-93,0-187-469,16-328-34562,15-7078-34391,16-78-312,16-172-484,15-63-281,16-31-109,0-1063-7593,0-110-296,0-32-187,15-500-1266,15-110-343,15-547-2344,16-281-1172,15-360-969,15-610-2734,0-329-937,31-875-10187,0-579-2968,16-63-93,15-47-500,15-1313-12062,15-125-329,15-78-203,16-109-453,15-375-4063,0-172-625,16-297-5109,16-31-78,0-109-828,16-422-5375,0-578-2875,15-47-141,15-1782-3609,15-594-1781,0-94-265,0-1187-4812,15-172-1406,15-954-9406,16-125-2906,16-125-422,15-110-343,16-109-2562,0-110-343,0-78-188,15-78-250,16-281-765,16-453-4594,0-219-594,16-484-3047,0-1234-28641,16-109-516,0-1406-3515,16-203-1188,16-172-625,16-125-234,15-219-406,16-93-141,0-250-578,0-484-1219,15-297-1578,16-15-1157,16-250-1250,0-656-2360,16-203-531,0-1438-3109,15-141-344,15-344-969,0-1437-28141,16-219-531,0-94-359,16-125-438,16-672-3171,0-78-250,16-172-500,16-15-94,16-156-422,15-125-188,0-141-391,16-297-984,16-671-3016,15-188-656,0-141-406,0-891-20484,0-281-1688,0-94-328,31-172-1140,0-125-282,16-531-1672,16-594-1312,16-375-2641,15-250-485,16-7922-26500,15-47-1578,16-203-1062,16-3078-62422,15-79-234,16-437-2766,15-78-235,0-78-266,0-47-203,0-234-1922,0-78-344,0-219-2234,15-266-1031,0-1453-43969,0-688-9187,0-1625-14109,15-485-4843,15-453-4922,16-172-578,16-344-1031,16-63-296,16-15-32,16-125-422,15-125-266,0-46-94,15-7110-96359,16-593-1579,16-719-1734,16-1813-10640,0-156-422,15-47-375,16-219-687,16-7844-30094,16-656-6203,31-563-1531,0-78-297,0-93-188,16-453-1375,0-1547-2688,16-265-875,16-141-781,16-125-718,0-234-391,0-94-187,16-156-313,15-360-2593,16-188-656,15-78-2766,0-1063-2937,15-453-1578,0-329-1000,0-296-1547,16-1047-4687,16-4937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Accuracy Results : [1,1,0.8333333333333334,0.6666666666666666,0.875,0.8,0.875,0.8571428571428571,0.875,0.8333333333333334,0.8,1,1,0.8571428571428571,0.7142857142857143,1,0.8333333333333334,0.8333333333333334,0.8,1,1,0.75,0.8571428571428571,0.8333333333333334,0.8,0.75,0.75,0.8333333333333334,0.8,0.75,0.8571428571428571,0.8333333333333334,0.7142857142857143,0.8333333333333334,0.8571428571428571,0.8571428571428571,0.7142857142857143,1,0.8333333333333334,0.875,0.8571428571428571,0.8571428571428571,1,1,0.8571428571428571,0.5714285714285714,0.8333333333333334,0.75,0.6666666666666666,0.7142857142857143,0.8333333333333334,1,0.75,0.7142857142857143,0.7142857142857143,0.8571428571428571,1,0.75,0.8888888888888888,0.625,0.8333333333333334,1,0.8571428571428571,1,0.8,0.7142857142857143,0.8333333333333334,0.8333333333333334,0.8333333333333334,1,0.8333333333333334,0.8333333333333334,0.8571428571428571,0.7777777777777778,0.8333333333333334,0.6666666666666666,0.8,0.8333333333333334,0.8571428571428571,0.8571428571428571,0.8571428571428571,0.6666666666666666,0.8,0.6666666666666666,1,0.8,1,1,0.7142857142857143,1,0.7777777777777778,0.8571428571428571,0.625,0.8,0.8571428571428571,0.8571428571428571,1,1,0.875,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.8571428571428571,1,0.75,1,0.8571428571428571,0.8,0.8333333333333334,0.6666666666666666,0.8571428571428571,0.7142857142857143,0.75,0.8333333333333334,0.8571428571428571,0.75,0.6666666666666666,1,0.875,0.8333333333333334,0.6666666666666666,0.625,0.7142857142857143,1,1,0.7142857142857143,0.7142857142857143,1,0.8571428571428571,0.875,0.8571428571428571,0.875,0.8,1,1,0.8333333333333334,1,1,1,0.8333333333333334,0.625,0.8571428571428571,1,0.7142857142857143,0.7142857142857143,1,0.75,0.8571428571428571,0.75,1,0.8571428571428571,0.8333333333333334,0.8333333333333334,0.8571428571428571,1,1,1,0.8,0.7142857142857143,0.875,1,1,1,0.8333333333333334,0.75,0.8333333333333334,0.6666666666666666,0.8333333333333334,0.7142857142857143,0.7142857142857143,0.8571428571428571,0.7142857142857143,1,0.8571428571428571,0.8571428571428571,0.8333333333333334,0.8571428571428571,0.8571428571428571,0.5714285714285714,0.8333333333333334,0.875,0.8571428571428571,0.6666666666666666,0.8333333333333334,0.8571428571428571,1,0.8333333333333334,1,0.8571428571428571,0.7142857142857143,0.8333333333333334,0.8333333333333334,0.5714285714285714,0.875,1,0.75,0.8333333333333334,0.8333333333333334,1,0.8571428571428571,0.8333333333333334,0.8333333333333334,1,0.8571428571428571,0.8333333333333334,0.7142857142857143,1,1,0.8333333333333334,0.8,0.7142857142857143,0.8,1,0.6666666666666666,0.8333333333333334,0.875,0.625,0.7142857142857143,0.6666666666666666,1,0.8,0.875,0.8333333333333334,0.8571428571428571,0.6666666666666666,0.8333333333333334,0.8,0.8571428571428571,0.8,0.8333333333333334,0.8333333333333334,0.7142857142857143,0.8333333333333334,0.875,0.8571428571428571,0.75,1,1,1,0.8333333333333334,0.8571428571428571,0.7142857142857143,0.7142857142857143,1,0.8571428571428571,0.6666666666666666,0.8333333333333334,0.7142857142857143,0.8333333333333334,0.7142857142857143,0.8571428571428571,0.6,0.8571428571428571,0.8571428571428571,0.8333333333333334,0.8571428571428571,0.875,0.8571428571428571,1,0.8333333333333334,0.875,1,1,0.8,0.7142857142857143,0.75,0.8571428571428571,0.8571428571428571,0.8571428571428571,0.5714285714285714,0.8571428571428571,1,1,0.8333333333333334,0.8333333333333334,0.8333333333333334,0.7142857142857143,0.8,0.6,0.8571428571428571,0.8571428571428571,0.8571428571428571,0.6666666666666666,0.8571428571428571,0.8333333333333334,0.8571428571428571,0.8333333333333334,0.8571428571428571,0.7142857142857143,0.8333333333333334,1,1,0.8571428571428571,1,0.7142857142857143,0.6666666666666666,0.8571428571428571,1,0.8333333333333334,1,0.8333333333333334,0.8333333333333334,0.7777777777777778,0.8,0.7142857142857143,0.8333333333333334,1,0.8333333333333334,0.6666666666666666,0.8,0.8,0.875,0.7142857142857143,0.8,1,0.8333333333333334,0.8571428571428571,0.7142857142857143,1,1,1,0.875,0.7142857142857143,0.8,0.6,0.875,0.6666666666666666,0.6666666666666666,0.8,0.875,0.8571428571428571,0.8333333333333334,1,0.8333333333333334,0.8571428571428571,0.7142857142857143,0.6666666666666666,1,0.8571428571428571,1,0.8571428571428571,0.6666666666666666,0.875,0.8333333333333334,0.6666666666666666,1,0.8333333333333334,0.6666666666666666,0.8,1,1,0.7142857142857143,0.8333333333333334,0.7142857142857143,0.8571428571428571,0.6666666666666666,0.75,0.7142857142857143,0.8571428571428571,0.8333333333333334,0.8333333333333334,1,1,0.8571428571428571,1,0.75,0.8333333333333334,0.7142857142857143,1,1,0.8333333333333334,1,0.7142857142857143,0.75,0.6666666666666666,0.8333333333333334,0.75,1,1,1,0.6666666666666666,1,0.8571428571428571,0.8571428571428571,1,1,0.8,0.8333333333333334,0.8333333333333334,1,1,0.7142857142857143,0.8571428571428571,0.8571428571428571,0.8333333333333334,1,0.875,0.8,1,0.75,0.7142857142857143,0.8333333333333334,0.8333333333333334,0.6666666666666666,0.8,0.8333333333333334,0.8333333333333334,0.7142857142857143,1,0.8571428571428571,0.8571428571428571,0.75,1,0.8571428571428571,1,0.8571428571428571,0.5714285714285714,0.75,0.8333333333333334,0.6666666666666666,0.8,1,0.8571428571428571,0.8571428571428571,0.7142857142857143,1,1,1,1,0.8571428571428571,0.8571428571428571,0.8333333333333334,0.6666666666666666,0.7142857142857143,0.7142857142857143,0.8571428571428571,0.8333333333333334,1,0.6666666666666666,0.6666666666666666,0.8571428571428571,1,1,1,0.8571428571428571,1,0.7142857142857143,0.7142857142857143,0.75,0.7777777777777778,0.75,0.8333333333333334,0.5714285714285714,0.8571428571428571,1,0.8333333333333334,0.8333333333333334,0.875,0.8333333333333334,0.8571428571428571,1,0.7142857142857143,0.7142857142857143,0.8571428571428571,0.6,0.8,1,0.8333333333333334,0.8333333333333334,0.7777777777777778,0.6666666666666666,0.8,0.6,0.8333333333333334,0.7142857142857143,0.8571428571428571,0.8,1,0.6666666666666666,1,0.8571428571428571,0.8571428571428571,0.6666666666666666,0.8571428571428571,0.8333333333333334,0.6666666666666666,0.8571428571428571,0.875,0.7142857142857143,0.8333333333333334,0.7142857142857143,1,0.8571428571428571,1,0.7142857142857143,0.8571428571428571,0.8333333333333334,0.75,0.75,0.875]

Mean time results: 10.878-701.574-4242.008

Mean accuracy results: 0.8376460317460317

true .

27 ?- --------------Class 4, K = 0 :

Time Results : [16-1250-5266,31-532-1968,15-2219-4406,15-4344-14828,16-2406-4797,15-1625-7594,15-578-1438,16-3359-7500,16-359-672,15-141-547,31-8969-26781,16-7109-24719,16-5078-13000,16-1344-2890,15-1047-2766,16-453-1563,16-2390-11016,16-375-984,15-1344-3516,31-281-641,16-1765-4781,31-5344-10281,16-219-797,16-234-750,31-11578-39500,15-7891-30750,16-2156-5703,31-3141-6875,31-4625-14141,16-4766-25171,16-1906-6110,16-687-5688,31-235-859,16-2140-10141,15-266-656,31-6984-35219,0-1343-13563,16-141-328,16-234-594,15-2469-6360,16-1000-7031,31-719-1937,16-531-1297,47-6750-28344,16-1187-8016,15-188-1078,15-1453-5750,31-781-7907,16-421-735,15-328-1032,31-3687-10719,15-1672-4125,15-1438-9343,16-156-375,16-10218-43500,16-437-2188,16-2047-5484,16-7531-20563,16-1609-8422,16-718-1485,16-1000-2468,31-3391-7171,31-188-578,15-266-1390,15-67610-265937,15-7360-59094,16-3484-17766,16-1609-4578,16-2109-6829,15-719-2063,16-10015-97406,15-1141-3312,16-2344-6765,15-828-3172,16-234-437,16-641-4578,15-2157-7437,15-985-5172,16-3797-11015,16-2969-24531,16-3484-13187,16-1953-4063,15-532-2484,15-1750-4047,31-578-3360,16-2219-7562,16-672-2422,15-3813-14922,15-1297-5016,16-359-953,16-4266-26609,16-2141-10968,16-1047-9047,15-282-734,15-1188-5032,15-1438-4265,15-516-1812,31-719-3875,15-1000-2078,31-344-1031]

Accuracy Results : [1,0.8571428571428571,0.7777777777777778,0.6666666666666666,0.8571428571428571,0.8571428571428571,0.8333333333333334,0.75,0.7142857142857143,0.8333333333333334,0.6666666666666666,0.875,0.7777777777777778,0.75,0.8571428571428571,0.7142857142857143,0.75,1,0.8571428571428571,1,0.75,0.875,0.6666666666666666,1,1,0.75,0.75,1,1,0.8888888888888888,0.75,1,1,0.75,0.8,0.75,0.875,0.6666666666666666,1,0.875,0.7142857142857143,0.7142857142857143,0.8333333333333334,0.7777777777777778,0.75,0.8333333333333334,0.8571428571428571,0.8571428571428571,0.8333333333333334,0.8571428571428571,0.7777777777777778,1,0.6666666666666666,1,0.7,0.7142857142857143,0.75,0.875,0.7142857142857143,0.8571428571428571,0.5714285714285714,0.75,0.8571428571428571,0.8333333333333334,0.7,0.6666666666666666,0.875,0.875,0.75,0.8571428571428571,0.875,0.8571428571428571,0.8571428571428571,0.7142857142857143,0.8333333333333334,0.7142857142857143,0.875,0.8571428571428571,0.875,0.7142857142857143,1,0.625,0.8571428571428571,1,0.875,0.875,0.7142857142857143,0.6666666666666666,0.8571428571428571,0.7142857142857143,0.75,0.875,0.7142857142857143,0.6666666666666666,0.8571428571428571,0.8571428571428571,0.8333333333333334,1,0.7142857142857143,0.6666666666666666]

Mean time results: 18.38-2886.43-11796.56

Mean accuracy results: 0.8165238095238094

--------------Class 5, K = 0 :

Time Results : [0-672-2406,16-3218-11516,16-2375-13656,32-1281-3969,16-765-2360,32-30953-62515,31-2688-6812,31-953-2985,31-828-5500,16-1328-3266,31-4203-15078,31-7531-44469,31-2000-3469,16-5000-23000,31-182687-337672,31-4485-16875,32-484-750,32-11156-131984,15-2094-9563,16-5562-39656,31-3204-20812,31-1562-9954,31-3188-18797,47-656-3797,0-2297-11813,31-3672-30391,16-4922-42484,16-359-578,16-672-3203,15-1781-7157,31-4219-52578,16-453-1735,32-18109-66328,31-5797-23937,31-3078-6391,15-10250-22063,32-2203-7203,31-3453-8985,32-3406-12312,31-7719-26468,16-8562-32813,31-3453-21219,16-1250-78016,31-3282-11453,31-1844-5125,31-750-2157,15-1344-1906,31-4657-18609,15-1391-5719,16-4031-15906]

Accuracy Results : [0.8333333333333334,0.75,0.875,0.7142857142857143,0.8571428571428571,1,0.75,1,0.8333333333333334,0.8571428571428571,0.7777777777777778,0.7777777777777778,0.75,0.875,0.8,0.7142857142857143,1,0.875,0.5555555555555556,1,0.875,0.8571428571428571,0.875,0.8333333333333334,0.7142857142857143,0.875,0.75,1,0.7142857142857143,1,0.8571428571428571,1,0.7777777777777778,0.875,0.8571428571428571,0.7777777777777778,1,1,0.75,0.875,0.875,0.875,0.8571428571428571,0.875,0.8571428571428571,0.8571428571428571,0.8571428571428571,0.7777777777777778,0.75,0.625]

Mean time results: 24.72-7636.54-26148.2

Mean accuracy results: 0.8413174603174602

--------------Class 6, K = 0 :

Time Results : [31-91297-737875,31-10328-23750,47-13453-63719,47-15797-56609,63-529125-5528140,47-2171-6438,46-5641-9344,46-6907-34359,47-35922-273062,78-13032-86625,47-114172-764016,31-36344-89750,47-12047-34156,31-1734-7078,62-140391-491125,63-16422-44375,47-3938-13687,31-875-4625,47-766-2172,47-4438-11734,47-6594-13922,47-49047-139109,47-37906-323016,47-5719-25937,47-7469-22500,63-1593-2891,63-5015-50328,47-5484-15266,47-3375-13297,47-2281-8563,32-32796-211938,31-5110-16781,62-21328-91141,62-7719-24313,62-94078-282281,31-1906-5813,62-40266-273641,63-75562-1163359,47-17485-51265,78-40063-159531,31-4219-22203,47-10469-25422,32-51406-306703,47-7125-17672,47-55500-136860,46-189329-9606656,31-51422-184141,31-5359-63500,31-2297-9250,31-3656-13313]

Accuracy Results : [0.8888888888888888,0.75,0.6666666666666666,0.7777777777777778,0.8,0.8571428571428571,0.875,0.875,0.6666666666666666,0.875,0.7777777777777778,0.7777777777777778,1,0.8333333333333334,0.8888888888888888,1,0.7142857142857143,0.6666666666666666,0.625,0.875,0.75,0.8888888888888888,0.875,0.7142857142857143,0.75,0.8333333333333334,0.75,0.875,0.75,0.75,0.7,0.75,1,0.75,0.9,0.7142857142857143,0.7777777777777778,0.7,0.75,1,1,0.6666666666666666,0.7777777777777778,0.625,0.7777777777777778,0.9,0.7,1,0.8571428571428571,0.75]

Mean time results: 46.84-37927.56-431265.02

Mean accuracy results: 0.8044761904761905

test\_class(1,2,1000), test\_class(2,2,1000), test\_class(3,2,500), test\_class(4,2,500), test\_class(5,2,100), test\_class(6,2,50), test\_class(1,4,1000), test\_class(2,4,1000), test\_class(3,4,500), test\_class(4,4,500), test\_class(5,4,100), test\_class(6,4,50), test\_class(1,100,1000), test\_class(2,100,1000), test\_class(3,100,500), test\_class(4,100,500), test\_class(5,100,100), test\_class(6,100,50).

--------------Class 1, K = 2 :

Mean time results: 1.388-1.11

Mean accuracy results: 0.9943666666666666

--------------Class 2, K = 2 :

Mean time results: 28.31-210.265

Mean accuracy results: 0.9624130952380962

--------------Class 3, K = 2 :

Mean time results: 43.55-919.782

Mean accuracy results: 0.9539888888888878

--------------Class 4, K = 2 :

Mean time results: 71.262-4158.598

Mean accuracy results: 0.9385666666666658

--------------Class 5, K = 2 :

Mean time results: 91.07-7061.98

Mean accuracy results: 0.9416111111111108

--------------Class 6, K = 2 :

Mean time results: 127.14-31669.66

Mean accuracy results: 0.9340873015873015

--------------Class 1, K = 4 :

Mean time results: 2.052-1.242

Mean accuracy results: 0.9987666666666667

--------------Class 2, K = 4 :

Mean time results: 56.552-178.434

Mean accuracy results: 0.9831376984126992

--------------Class 3, K = 4 :

Mean time results: 91.39-1176.014

Mean accuracy results: 0.9796896825396817

--------------Class 4, K = 4 :

Mean time results: 156.732-4413.42

Mean accuracy results: 0.9733277777777779

--------------Class 5, K = 4 :

Mean time results: 196.56-10653.02

Mean accuracy results: 0.9651507936507937

--------------Class 6, K = 4 :

Mean time results: 271.94-22746.86

Mean accuracy results: 0.9566825396825394

--------------Class 1, K = 100 :

Mean time results: 3.13-1.371

Mean accuracy results: 0.9995833333333334

--------------Class 2, K = 100 :

Mean time results: 63.806-196.252

Mean accuracy results: 0.9857246031746038

--------------Class 3, K = 100 :

Mean time results: 104.06-1046.092

Mean accuracy results: 0.9818690476190467

--------------Class 4, K = 100 :

Mean time results: 206.218-5700.144

Mean accuracy results: 0.9740730158730156

--------------Class 5, K = 100 :

Mean time results: 249.33-6394.7

Mean accuracy results: 0.9748881673881672

--------------Class 6, K = 100 :

Mean time results: 377.2-21187.08

Mean accuracy results: 0.9692539682539683