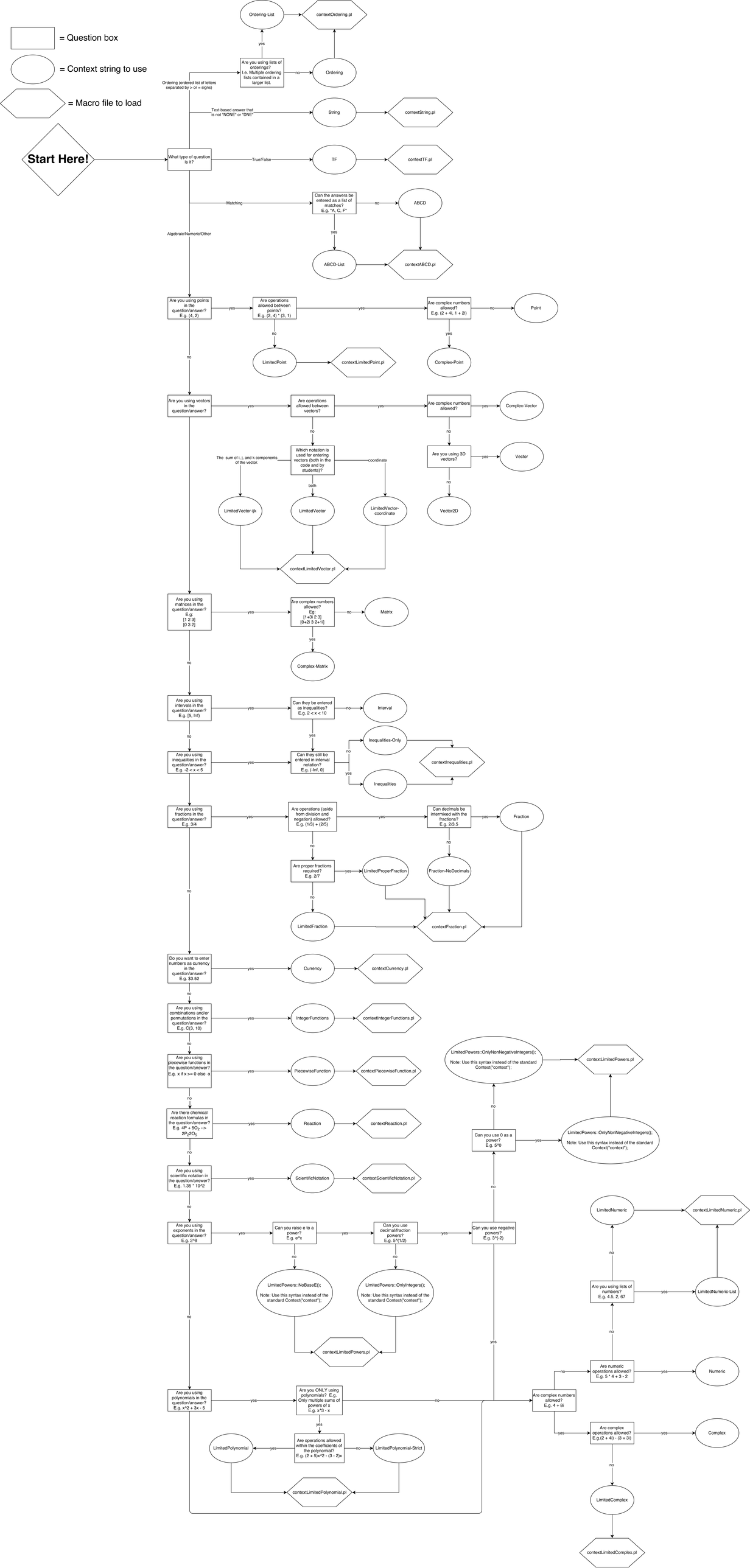
= Question box
= Context string to use
= Macro file to load
Start Here!
What type of question is it?
Ordering (ordered list of letters separated by > or = signs)
Text-based answer that is not "NONE" or "DNE"
True/False
Matching
Algebraic/Numeric/Other
Are you using lists of orderings? I.e. Multiple ordering lists contained in a larger list.
yes
no
Ordering-List
contextOrdering.pl
Ordering
String
contextString.pl
TF
contextTF.pl
Can the answers be entered as a list of matches? E.g. "A, C, F"
ABCD
ABCD-List
contextABCD.pl
Are you using points in the question/answer? E.g. (4, 2)
Are operations allowed between points? E.g. (2, 4) * (3, 1)
Are complex numbers allowed? E.g. (2 + 4i, 1 + 2i)
Point
LimitedPoint
contextLimitedPoint.pl
Complex-Point
Are you using vectors in the question/answer?
Are operations allowed between vectors?
Are complex numbers allowed?
Complex-Vector
Which notation is used for entering vectors (both in the code and by students)?
The sum of i, j, and k components of the vector.
coordinate
both
Are you using 3D vectors?
Vector
LimitedVector-ijk
LimitedVector
LimitedVector-coordinate
Vector2D
contextLimitedVector.pl
Are you using matrices in the question/answer? E.g: [1 2 3] [0 3 2]
Are complex numbers allowed? Eg: [1+3i 2 3] [0+2i 3 2+1i]
Matrix
Complex-Matrix
Are you using intervals in the question/answer? E.g. [5, Inf)
Can they be entered as inequalities? E.g. 2 < x < 10
Interval
Are you using inequalities in the question/answer? E.g. -2 < x < 5
Can they still be entered in interval notation? E.g. (-Inf, 0]
Inequalities-Only
Inequalities
contextInequalities.pl
Are you using fractions in the question/answer? E.g. 3/4
Are operations (aside from division and negation) allowed? E.g. (1/3) + (2/5)
Can decimals be intermixed with the fractions? E.g. 2/3.5
Fraction
Are proper fractions required? E.g. 2/7
LimitedProperFraction
Fraction-NoDecimals
LimitedFraction
contextFraction.pl
Do you want to enter numbers as currency in the question/answer? E.g. $3.52
Currency
contextCurrency.pl
Are you using combinations and/or permutations in the question/answer? E.g. C(3, 10)
IntegerFunctions
contextIntegerFunctions.pl
Are you using piecewise functions in the question/answer? E.g. x if x >= 0 else -x
PiecewiseFunction
contextPiecewiseFunction.pl
Are there chemical reaction formulas in the question/answer? E.g. 4P + 5O2 --> 2P2O5
Reaction
contextReaction.pl
Are you using scientific notation in the question/answer? E.g. 1.35 * 10^2
ScientificNotation
contextScientificNotation.pl
Are you using exponents in the question/answer? E.g. 2^8
Can you raise e to a power? E.g. e^x
Can you use decimal/fraction powers? E.g. 5^(1/2)
Can you use negative powers? E.g. 3^(-2)
Can you use 0 as a power? E.g. 5^0
LimitedPowers::OnlyNonNegativeIntegers();
Note: Use this syntax instead of the standard Context("context");
contextLimitedPowers.pl
LimitedPowers::NoBaseE();
LimitedPowers::OnlyIntegers();
Are you using polynomials in the question/answer? E.g. x^2 + 3x - 5
Are you ONLY using polynomials? E.g. Only multiple sums of powers of x E.g. x^3 - x
Are operations allowed within the coefficients of the polynomial? E.g. (2 + 5)x^2 - (3 - 2)x
LimitedPolynomial
LimitedPolynomial-Strict
contextLimitedPolynomial.pl
Are complex numbers allowed? E.g. 4 + 8i
Are complex operations allowed? E.g.(2 + 4i) - (3 + 3i)
Complex
LimitedComplex
contextLimitedComplex.pl
Are numeric operations allowed? E.g. 5 * 4 + 3 - 2
Numeric
Are you using lists of numbers? E.g. 4.5, 2, 67
LimitedNumeric-List
LimitedNumeric
contextLimitedNumeric.pl