class Matrix<T> {

Int width, Length, rank;

LineVector[] rows;

<T> determinant, scalar;

Public <t> determenent();

Public Matrix add(Matrix<T> self, Matrix b);

Public Matrix sub(Matrix self, Matrix b);

Public Matrix scalar(Matrix self, <T> scalar);

Public Matrix mul(Matrix self, Matrix b);

Public Matrix transpose(Matrix self);

Public matrix inverse()

}

Class LineVector<T>{

Int length;

Bool isList;

Int number\_of\_zeros;

List<T> elements;

T[] arr;

Public <T> innerProduct(LineVector self, LineVector other);

Public <T> norm()

}