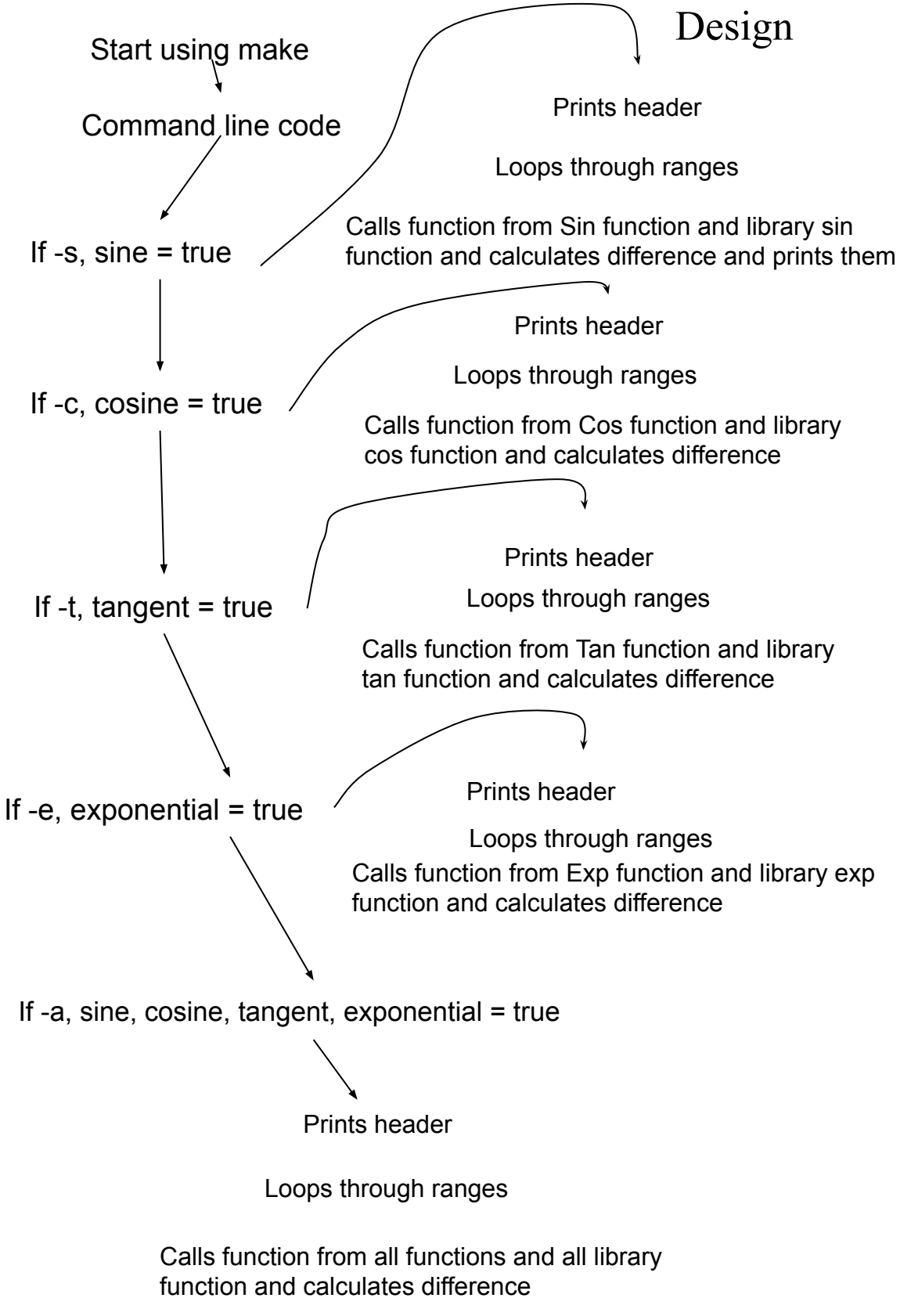
Design



Pseudocode

Sin function
- Declaring y = x^2
- Calculate the numerator of Horners normal form
- Calculate the denominator of Horners normal form

Cos function
- Declaring y = x^2
- Calculate the numerator of Horners normal form
- Calculate the denominator of Horners normal form

Tan function
- Calculate the numerator of Padé approximant for tan(x)
- Calculate the denominator of Padé approximant for tan(x)

Exp function
- Declares values
- While for the summation equation if add is smaller than while stops
  - Add what is added to the sum
  - Increase n by 1
  - Y * x to increase power
  - Add y / factorial
- Return summation

Main function
- Sine, cosine, tangent, exponential set to false
- Command line code
- If argument give in command line set that test to true, if all requested sest all the tests to true
- If sine = true
  - Execute print statement and tests for sin with given ranges
- If cosine = true
  - Execute print statement and tests for cos with given ranges
- If tangent = true
  - Execute print statement and tests for tan with given ranges
- If exponential = true
  - Execute print statement and tests for exp with give ranges