highestSquareNumber(a) {

//GENERATES PERFECT SQUARE NUMBER VALUES

perfectSquaresList <- New Int Array []

For i <- 1 to 10000 {

If square root of i mod 1 = 0 {

append i to perfectSquaresList

}

}

//RETURNS CLOSEST PERFECT SQUARE NUMBER

For i <- 1 to perfectSquaresList.length {

If a =< perfectSquaresList[i] {

Return perfectSquaresList[i]

}

}

}