### Stats 380, Assignment 1, Whui Kim (wkim042)

### Question 1 (a) (i)

pi\*1:100

### Question 1 (a) (ii)

(1:10)^2

### Question 1 (a) (iii)

2^(1:100)

### Question 1 (a) (iv)

1:100\*c(1,-1,1)

### Question 1 (b) (i)

firstbigger =

function(x,a)

which(cumsum(x) > a) [1]

### Question 1 (b) (ii)

firstbigger =

function(x,a) {

index=NA

S=0

for(i in seq(along=x)) {

S=S+x[i]

if(S>a){

index=i

break

}

}

index

}

### Question 3

> mother.tongue =

+ structure(

+ c(1000, 350, 250, 200, 150, 150, 150, 135, 120,

+ 100, 70, 70, 65, 65, 60, 60, 55, 55, 50, 50),

+ names =

+ c("Chinese", "English", "Spanish", "Hindi", "Arabic",

+ "Bengali", "Russia", "Portuguese", "Japanese", "German",

+ "French", "Panjabi", "Javanese", "Bihari", "Italian",

+ "Korean", "Telugu", "Tamil", "Marathi", "Vietnamese"))

> plot.new()

> box()

> axis(1)

> axis(2)

> axis(3)

>dotchart(mother.tongue, lty="1111", xlim = range(0,mother.tongue),xlab = "Number of Speakers(Millions)", main = "Number of Speakers(Millions)")