Week 2 q3

MATRICES\_MULTIPLICATION(B, C) //1

firstB<-b[:4] //1

firstC<-c[:4] //1

empty\_list<- [] //1

for i <-b: //n

times<-b\*c for b,c in zip(b, c)] //n

empty\_list.append(times)//n

print(empty\_list) //n

MATRICES\_ADDITION(B, C)

firstB<-b[:4] //1

firstC<-c[:4] //1

empty\_list=[] //1

for i <-b: //n

times=[b+c for b,c in zip(b, c)] //n

empty\_list.append(times) //n

print(empty\_list) //n

MATRICES\_SUBTRACTION

firstB<-b[:4] //1

firstC<-c[:4] //1

empty\_list=[] //1

for i <-b: //n

times<-b-c for b,c in zip(b, c)] //n

empty\_list.append(times) //n

print(empty\_list) //n

FUNCTION(B, C)

a<-b\*c-2\*(b+c) //1

firstB<-b[:4] //1

firstC<-c[:4] //1

empty\_list=[]//1

empty\_list2<- [] //1

for i <-b //n

times<- [b\*c-2 for b,c in zip(b, c)] //n

empty\_list.append(times)//n

return empty\_list //n

for i <-b //n^n

times2<- [times\*b+c for b,c in zip(b, c)] //n^n

empty\_list2.append(times2) //n^n

print(empty\_list2) //n^n

O(n2) Big O notation

function([3,8,4,6], [4,0,3,5])