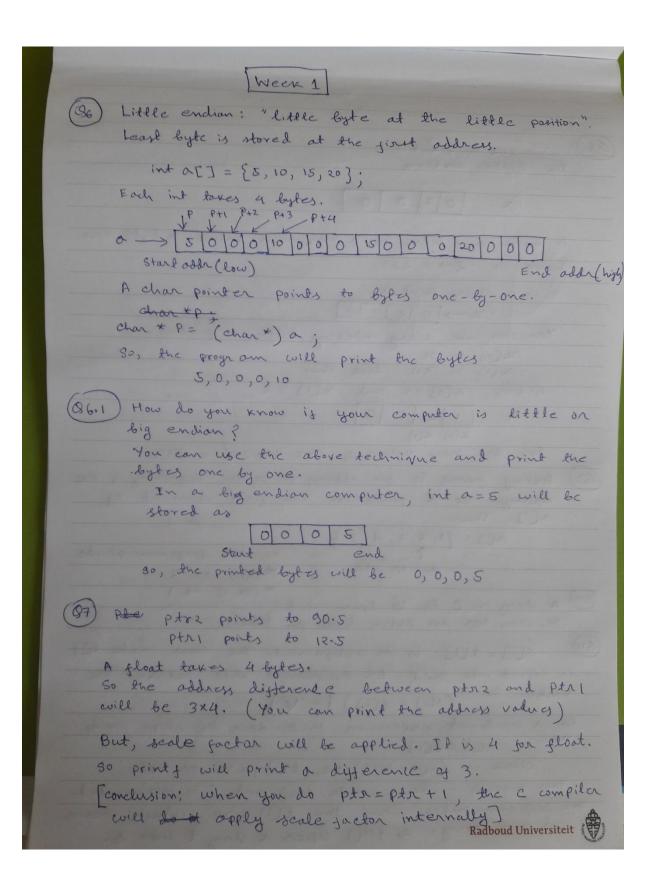
Solutions of Some of the Practice Problems of Week 1



(88) $\alpha = 512 = 2.28 + 0$ In little endion

a. 0200

A byte is 8 lits. So, a maximum value a byte con have is $2^{9}-1=255$.

x is a char pointer

x->[0/2/0/0]

You can use array indexing with a pointer.

X[1] is X+1 live this

ter x[0] = 1 and x[1] = 2, $x[0] \times [0]$

So, the new value of a = 1+ 2.2 = 513

(BD) Array name is an address # to the beginning of the array. So 'a' points to the first element of a[]. Thus

- (310) A string in C is '10' terminated. * (Ptr-1) as 1 So, consider an extra byte for that.
- (311) S[i] = t[i] is an assignment. The char inside t[i] is copied into S[i]. An assignment also returns the value. So (S[i] = t[i])! = (0)

is a combined expression that does the steps one by.

one:

S[i] = \$[i]

the end of a string. So too() copies a string t into s.

(812) It does the same thing as (811.

Still with it means the next element.

St+ also means pointing to the next element.

So the while loop copies chan elements of string t into 3 one by one.

(813) *8++ = *t++ is done in sleps *8 = *t then t++ and s++

The (* stt = * ttt) is the assignment operation.

Neturned value. So it is bassical the value * t.

Thus again the while loop copies contacts of

Thus, again the while loop copies contacts of t into c.

(314) and (315)

A matrix such as int m[2][3] in C is stored in the row major order.

Let m[2][3] = (1 2 3) Logical view

(4 5 6)

m -> 1 2 3 4 5 6

Let *Pse a pointa: P= 2m[o][o].

Column major print:

for (i=0; i<3; i+t)

for (j=0; j<2; j+t) {

Print f ("xd.", *(P+jx3+i))

Row major print: 1,2,3,4,5,6

for (i=0; ix3x2; i++)

print + (1/4, d", *(P+i));