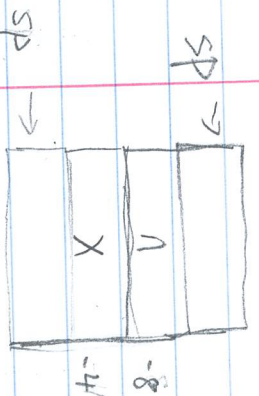


Suppose in this  
Case  $n=3$   $x=2$



ADR SP, stack

MOV R0, #x

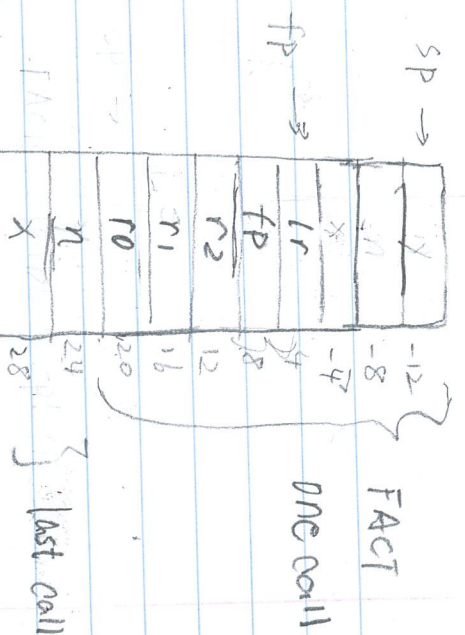
STR R0, [SP, #-4]!

MOV R0, #n

STR R0, [SP, #-4]!

SUB SP, SP, #4

BL FACT



FACT STMFD SP!, R0, R1, R2, FP, LR

MOV FP, SP

SUB SP, SP, #12

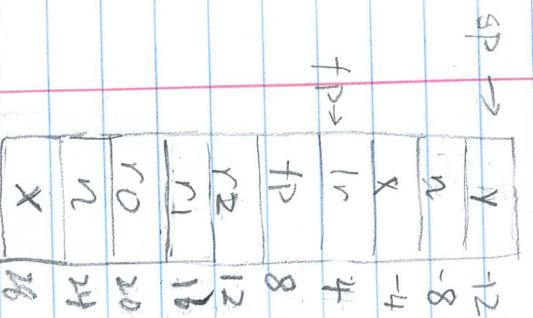
LDR R0, [FP, #24], #n

LDR R1, [FP, #28]

CMP R0, #0

MOVEQ R0, #1

STREQ R0, [FP, 0x14], store in R0



Even case:

AND R2, R0, #1

CMP R2, #1

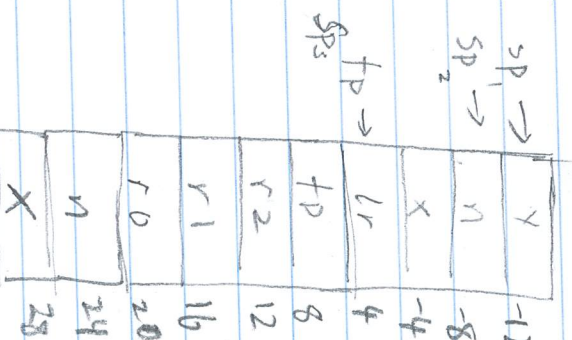
BEQ ODD

MOV R0, R0, LSR #1

STR R1, [FP, #-4]

STR R2, [FP, #-8]

BL FACT



LDR R0, [SP], #4

ADD SP, SP, #4

MUL R2, R0, R0

STR R2, R0, R0

MOV SP, FP

LDMFD SP!, {R0, R1, R2, FP, PC}