```
MOV r0,#9
MOV r3,r0
MOV r5,r0
Bl Faculty
Faculty:
```

SP!,{r4,lr} STMFD CMP r5,#0 BEQ Finish CMP r4,#1 BEQ LReturn SUB r4, r0, #1 SUB r0, r0, #1 BL Faculty MUL r3, r4, r3 LReturn BAL

LReturn:

MOV r0,r3 SUB r5,r5,#1 LDMFD SP!,{r4,PC}

Finish: MOV r1,r0 MOV r0, #1 SWI 0x6b SWI 0x11 .end