

Assignment-2

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Sol:-

MOV R0, 1

MOV R1, 0

MOV R2, 0

MOV R10, 0

loop a: ;

MOV R1, R1+1

MUL R3, R1, R1

MUL R3, R3, R1 ; cube of R1

CMP R3, R0

MOV R2, R1

B.LT .loop b

MOV R0, R0+1

MOV R1, 0

MOV R2, 0

MOV R10, 0

MUL R6, R0, R0

MUL R6, R6, R0

.loop a

loop b:

MOV R2, R2+1

MUL R4, R2, R2

MUL R4, R4, R2

ADD R5, R3, R4

CMP R5, R6

beg. increment $\rightarrow 10$

cmp $10, 2$

beg. end.

cmp $4, 20$

bit = loop b.

• loop a

increment $\rightarrow 10$;

add $10, 10 \neq 1$;

end:

exit

Final Answer:- 10 .