Aim - Implementing Macro Processor in C.

Procedure -

1. Provide Assembly program containing Macro as input MACIN.TXT
2. The result will be stored in MACOUT.TXT
3. Outut of MACRO processor is in MACOUT.txt & MDT.txt

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Assembly program as input (MACIN.TXT)

CALC START 1000

SUM MACRO \*\*

\*\* LDA #5

\*\* ADD #10

\*\* STA 2000

\*\* MEND \*\*

\*\* LDA LENGTH

\*\* COMP ZERO

\*\* JEQ LOOP

\*\* SUM \*\*

LENGTH WORD S

ZERO WORD S

LOOP SUM \*\*

\*\* END \*\*

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Macro definition table (MDT.TXT)

\*\*  LDA #5

\*\*  ADD #10

\*\*  STA 2000

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Output (MACOUT.TXT)

CALC    START   1000

\*\*  LDA LENGTH

\*\*  COMP    ZERO

\*\*  JEQ LOOP

\*\*  LDA #5

\*\*  ADD #10

\*\*  STA 2000

LENGTH  WORD    S

ZERO    WORD    S

\*\*  LDA #5

\*\*  ADD #10

\*\*  STA 2000

\*\*  END \*\*