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.include "m64def.inc"
.def temp=r16
.org 0x00
rjmp main

main:
    //Setting up stack pointer
    ldi temp,low(ramend)
    out spl,temp

    ldi temp,high(ramend)
    out sph,temp

    //Set PORTC to output
    ldi temp,0xff
    out ddrc,temp

    //Setting initial value to be shifted
    ldi temp,0x01

shift:
    //Every time set PORTC to last shifted value
    out PORTC,temp
    rol temp
    cpi temp,0x00
    brne delay
    //Avoid extra delay in case of temp = 0x00
    ldi temp,0x01

delay:
    //41*150*128 ~0.8 mega instruction
    //0.8*10* (1/8MHz) = 1 Second
    ldi r18,41
    ldi r19,150
    ldi r20,128

time_wasting:
    dec r20
    brne time_wasting
    dec r19
    brne time_wasting
    dec r18
    brne time_wasting
    rjmp shift
```