1.A

Handwritten Code:

```
1. A

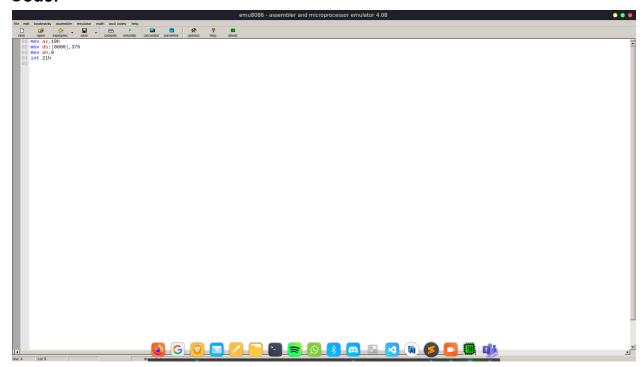
mov ax, 19h

mov ds: [0000], 37h

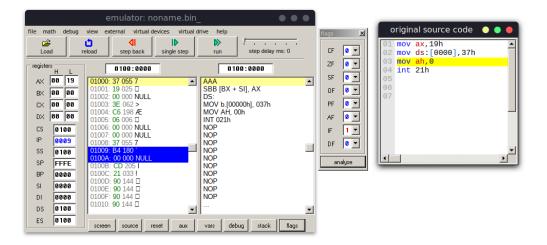
mov ah, 0

int 21h
```

Code:



Output:



1.B

Addition

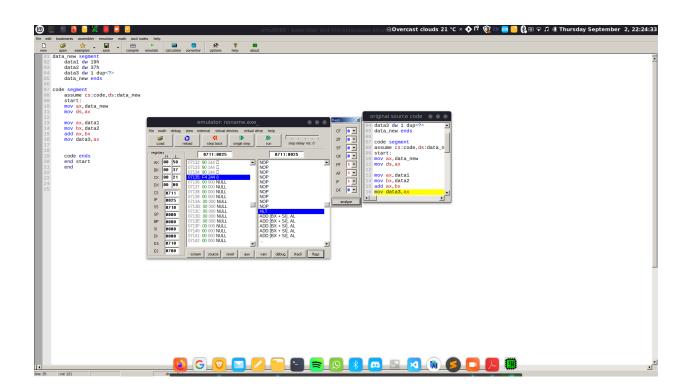
Handwritten Code:

```
1. B
 Addition
  data _ new segment
      datal dw 19h
       data 2 dw 37h
       data 3 dw 1 dup < ? >
        data_new ends
   code segment
        assume cs: code, ds: data_new
        Start:
         mov ax, datat_new
         mor ds, ax
          mor an, datal
          mor bn, data 2
          add an, by
          mov dataz, an
          code ends
           end start
            end
```

```
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| Image: Control of the cont
```

Output:



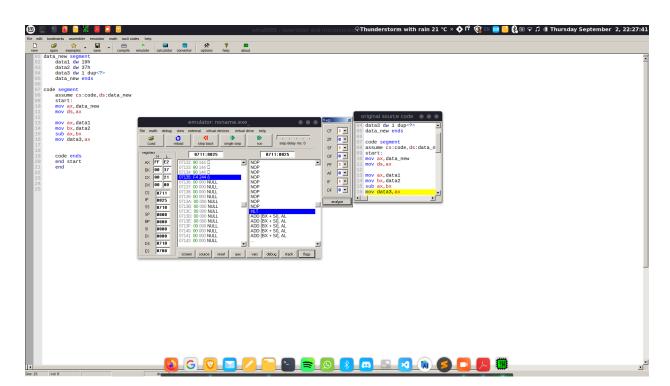
Subtraction

Handwritten Code:

Code:

```
The State Section of the Control of
```

Output:



1.C Handwritten Code:

```
1.0
data-new segment
     datal dw 19h
     dataz dw 37h
     data-new ends
     assume es: code, ds: data-new
code segment
     Start:
     mor an, data-new
      mov ds, an
      mor an, datal
       mor by, data 2
        or an, bn
        mor ah,0
         int 21h
         code ends
         end start
          end
```

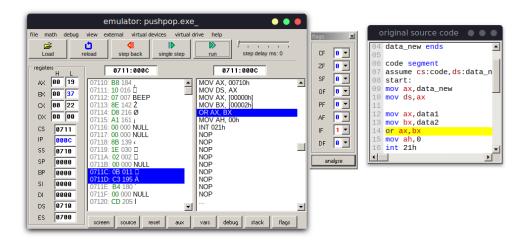
```
The rest processor and a control tops

The state of the control top of the control tops

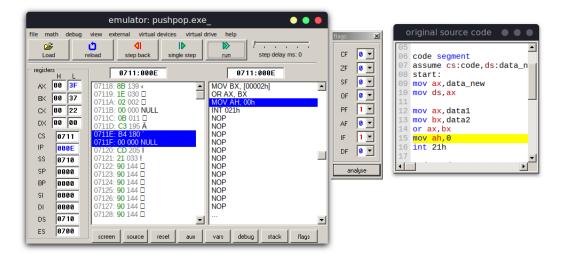
The state of the control top of the co
```

Output:

aLa_IICW



ta_new

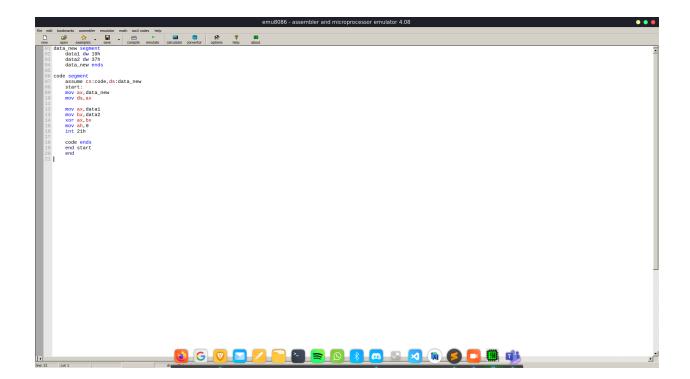


XOR

Handwritten Code:

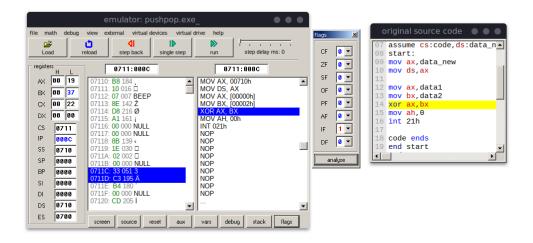
```
1.0
data_new segment
     datal dw 19h
     dataz olu 37h
     data - new ends
code segment
     assume es: code, ds: data-new
     Start:
     mor an, data-new
      mov ds, an
      mor an, datal
      mor by, data 2
      nor an, bn
        mor ah,0
         int 21h
         code ends
         end start
          end
```

Code:

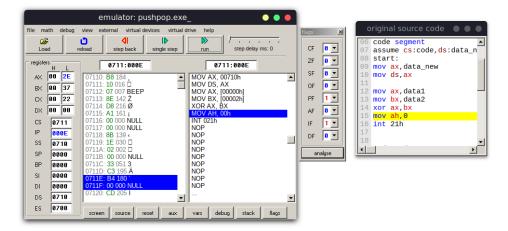


Output:

data_new



s:data_new



1.D Handwritten Code:

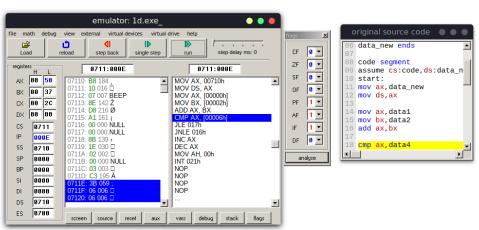
```
1. D
data-new segment
    datal dw 19h
     data2 dw 37h
     data? dw 1 dup <?7
     datay dw 50h
     data - new ends
code segment
     assume cs: code, ds: data_new
      start:
      mor an, data-new
      mor ds, an
       nov an, data 1
       mor bn, data 2
       add an, bn
       cmp an, datay
       ile lessea
        jg isgreater
        isgreater: inc an
        lessez: dec an
        mov ahio
         int 21h
        code ends
```

```
In the belowing control whater and not tooks long

| Control of the specific | Control of the sp
```

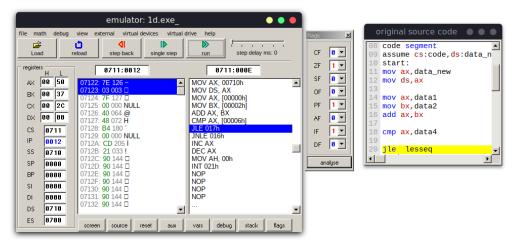
Output:

is:data_new

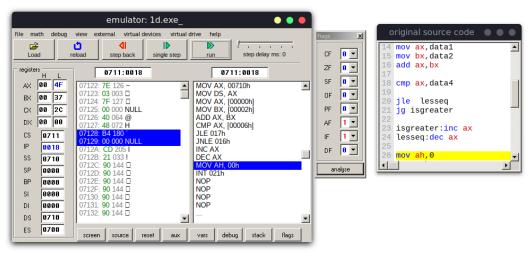


(

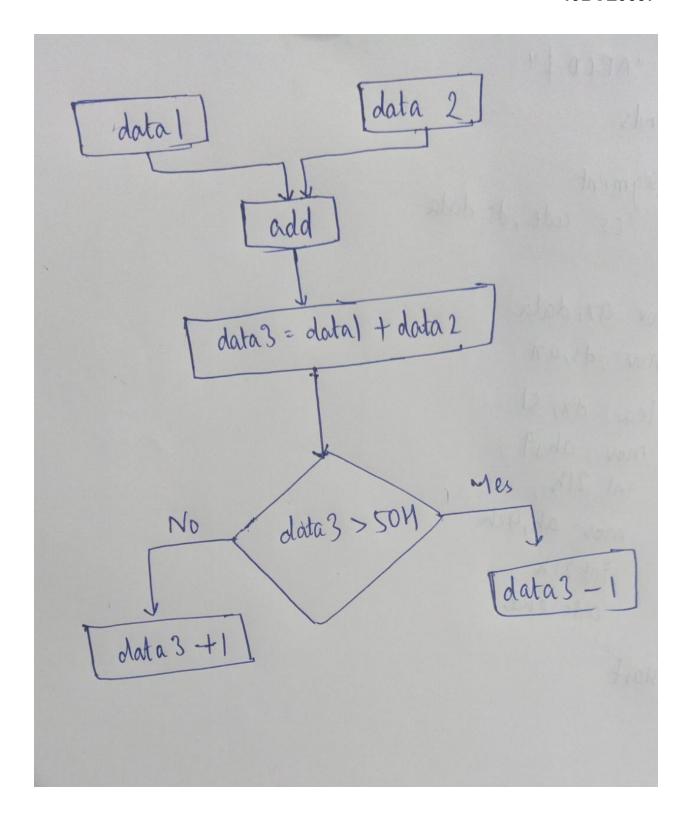
lata_new



lata_new

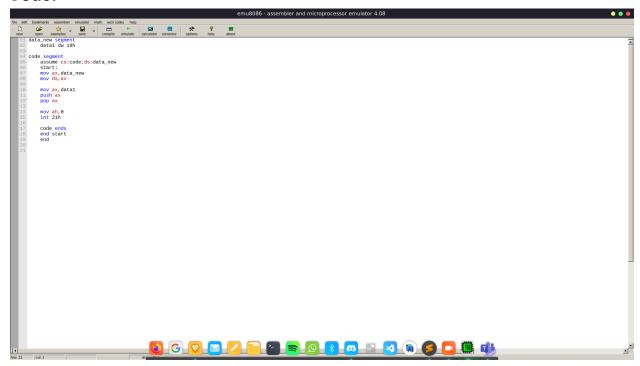


Flowchart:

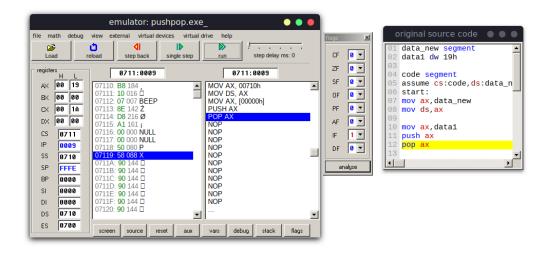


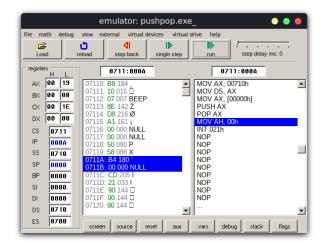
1.E Handwritten Code:

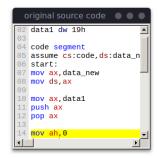
```
1. E
data - new segment
   datal du 19h
Code segment
    assume cs: code, ds: data-new
     Start:
     mor an, data-new
     mor ds, an
      mor an, data 1
       push an
       pop an
        mor ah, o
        int 21h
        code ends
end start
         end
```



Output:







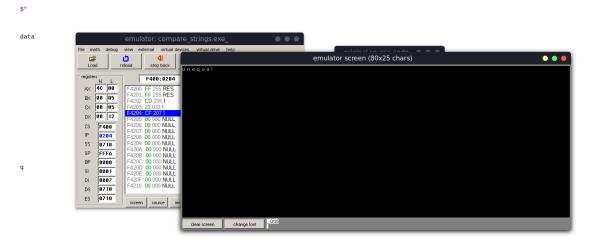
1.F Handwritten Code:

```
1. F
data segment
                                   ne:
                                     mov ahy 09h
   si db "ABCD$"
                                     lea dr, strung
   11 db $-51
   52 db "abcd$"
12 db $-52
                                     int 21h
                                    imp exit
   Streng db "equal $" strunge db "unequal $
                                     e mov ah, 09h
                                       lea da, three
 data ends
                                       int 21 h
                                     mov an, 4000h
 code segment
     assume es: code, ds: data
                                        int 21h
     begin:
                                     code ends
         mov an, data
                                     end begin
         mov ds, an
          mor es 1 ax
          1ea si, st
          1ea di, sz
          mor ca, 6
           mor al, ll
           mov 61,12
           comp al, bl
            jne ne
           repe empsb
            jne ne
           imp e
```

```
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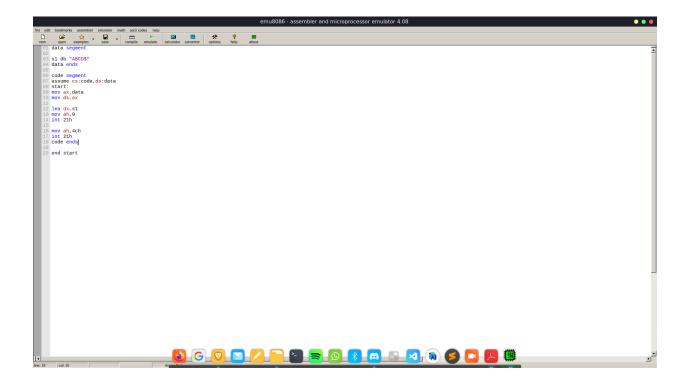
| Comparison |
```

Output:



Handwritten Code:

```
data segment
SI db "ABCD$"
data ends
code segment
 assume cs: code, ds: data
 start:
    nov an data
     Mov ds, an
      lea dn, sl
      mov ah,9
       Int 21h
       mor ah,4ch
        int 21h
        code ends
end start
```



Output:

