

SOURCE CODE

NAME: PRIYANKA SURESH SALUNKE

CLASS: SE COMP 1

PRN: F19111151

```
%macro print 2
```

```
    mov rax,01
```

```
    mov rdi,1
```

```
    mov rsi,%1
```

```
    mov rdx,%2
```

```
    syscall
```

```
%endmacro
```

```
section .data
```

```
srcblk db 10h,20h,30h,40h,50h
```

```
dstblk db 60h,61h,62h,63h,64h
```

```
m0 db 10,13, "Overlapping BDT with string instructions", 10,13
```

```
l0 equ $-m0
```

```
m1 db 10,13," Source Block: ",10,13
```

```
l1 equ $-m1
```

```
m2 db 10," Destinition Block Before Transfer: ",10,13
```

```
l2 equ $-m2
```

```
m3 db 10," Destinition Block After Transfer: ",10,13
```

```
l3 equ $-m3
```

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```
space db " "
```

```
newline db 0xa
```

```
section .bss
```

```
input resb 01
```

```
choice resb 01
```

```
count resb 01
```

```
count1 resb 01
```

```
section .text
```

```
global _start
```

```
_start:
```

```
menu:
```

```
    print m0,l0
```

```
print m1,l1
```

```
    mov rsi,srcblk
```

```
    call disp_block
```

```
print m2,l2
```

```
    mov rsi,dstblk
```

```
    call disp_block
```

```
    print m3,l3
```

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```
cld  
  
mov rcx,02  
  
mov rsi,srcblk  
  
mov rdi,dstblk
```

```
s1:  movsb  
     loop s1
```

```
mov rcx,03  
  
mov rsi,srcblk
```

```
s2:  movsb  
     loop s2
```

```
mov rsi,dstblk  
call disp_block
```

```
print newline,1
```

```
stop:
```

```
mov rax,60  
  
xor rdi,rdi  
  
syscall
```

```
disp_block:
```

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```
mov rbp,05
```

```
back: mov al,[rsi]
```

```
    push rsi
```

```
    mov bl,al
```

```
    call disp_8
```

```
print space,1
```

```
    pop rsi
```

```
    inc rsi
```

```
    dec rbp
```

```
    jnz back
```

```
ret
```

```
disp_8:
```

```
    mov dl,bl
```

```
    and dl,0f0h
```

```
    rol dl,04
```

```
    cmp dl,09h
```

```
    jbe skip
```

```
    add dl,07h
```

```
skip:
```

```
    add dl,30h
```

```
    mov byte[count],dl
```

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```
and bl,0fh
```

```
cmp bl,09h
```

```
jbe skip1
```

```
add bl,07h
```

```
skip1:
```

```
add bl,30h
```


```
mov byte[count1],bl
```


```
print count,01
```


```
print count1,01
```


```
ret
```

INPUT

 Assembly ▾

 Code

 Input

 Output

▶ Run

📄 Save

1 1 2 3 4 5|


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OUTPUT:

 Assembly ▾

 Code

 Input

 Output

▶ Run

📄 Save

```
Overlapping BDT with string instructions

Source Block:
10 20 30 40 50
Destination Block Before Transfer:
60 61 62 63 64
Destination Block After Transfer:
10 20 10 20 30

[Program exited with exit code 0]
```