

```
.data
str1:  .string  "1234"
str2:  .string  "9999"
variable1:  .string  "string1:"
variable2:  .string  "string2:"
variable3:  .string  "before:"
variable4:  .string  "after:"
```

```
newline:  .string  "\n"
```

```
.text
```

```
    la a0, variable3
    li a7, 4
    ecall
    jal printNewline
```

```
    la a0, variable1
    li a7, 4
    ecall
```

```
    la a0, str1
    li a7, 4
    ecall
    jal printNewline
```

```
    la a0, variable2
    li a7, 4
    ecall
```

```
    la a0, str2
    li a7, 4
    ecall
    jal printNewline
```

```
    la a0, str1
    la a1, str2
    jal strcpy
    jal printNewline
    #####
    la a0, variable4
    li a7, 4
    ecall
    jal printNewline
```

```
la a0, variable1
li a7, 4
ecall
la a0, str1
li a7, 4 # Print str1
ecall
jal printNewline
```

```
la a0, variable2
li a7, 4
ecall
```

```
la a0, str2
li a7, 4 # Print str2
ecall
jal printNewline
```

```
beq zero, zero, exit
```

strcpy:

```
    addi sp,sp,-8
    sw  s3,0(sp)
    add s3,zero,zero
L1: add t0,s3,a0
    lbu t1,0(t0)
    add t2,s3,a1
    sb  t1,0(t2)
    beq t1,zero,L2
    addi s3,s3,1
    jal zero,L1
L2: lw  s3,0(sp)
    addi sp,sp,8
    jalr ra
```

printNewline:

```
la a0, newline
li a7, 4
ecall
jr x1
```

exit:

```
li a7, 10
ecall
```