

# 11.11.2014.(SRIJEDA)

Add 1xx add

Subtract 2xx sub

Store accumulator 3xx sta

Load to accumulator 5xx lda

Branch (jump) 6xx bra

Branch if zero 7xx brz

Branch if positive 8xx brp

Fetch value from inbox 901 inp

Put value to outbox 902 out

Coffee break 0 hlt/cob

**ODUZIMANJE, UVIJEK OD VEĆEG MANJI:**

INP  
STA FIRST  
INP  
STA SECOND  
SUB FIRST  
BRP 8  
LDA FIRST  
SUB SECOND  
OUT  
HLT  
FIRST DAT 2  
SECOND DAT 1

## **MNOŽENJE:**

```
INP
STA FIRST
INP
SUB ONE
STA SECOND
LOOP LDA REZULTAT
ADD FIRST
STA REZULTAT
LDA SECOND
SUB ONE
STA SECOND
BRP LOOP
LDA REZULTAT
OUT
HLT
BRA LOOP
```

```
ONEDAT 1
FIRST DAT
SECOND DAT
REZULTAT DAT 0
```

# 12.11.2014.(ČETVRTAK)

VED bez ostatka

```
INP
STA FIRST
INP
STA SECOND
LOOP LDA FIRST
SUB SECOND
STA FIRST
LDA COUNTER
ADD ONE
STA COUNTER
LDA FIRST
BRP LOOP
LDA COUNTER
SUB ONE
OUT
HLT
COUNTER DAT 00
ONE DAT 01
FIRST DAT
SECOND DAT
```

### **DJELJENJE SA OSTATKOM:**

```
INP
STA FIRST
INP
STA SECOND
PETLJA LDA BROJAC
ADD ONE
STA BROJAC
LDA FIRST
SUB SECOND
STA FIRST
BRP PETLJA
ISPIS LDA BROJAC
SUB ONE
OUT
LDA FIRST
ADD SECOND
OUT
HLT
FIRST DAT
SECOND DAT
BROJAC DAT 0
ONE DAT 1
ONE DAT 1
```

### **BROJAČ :**

```
INP
STA FIRST
INP
STA SECOND
SUB FIRST
BRP PRELOOP2
LDA FIRST
SUB SECOND
BRP PRELOOP

PRELOOP LDA FIRST
OUT
LOOP LDA FIRST
```

SUB SECOND  
STA FIRST  
OUT  
LDA COUNTER  
ADD ONE  
STA COUNTER  
LDA FIRST  
BRZ BROJAC  
BRP LOOP  
BROJAC LDA COUNTER  
OUT  
QUIT HLT

PRELOOP2 LDA SECOND  
OUT  
LOOP2 LDA SECOND  
SUB FIRST  
STA SECOND  
OUT  
LDA COUNTER  
ADD ONE  
STA COUNTER  
LDA SECOND  
BRZ BROJAC  
BRP LOOP2

BROJAC LDA COUNTER  
OUT  
QUIT HLT

FIRST DAT  
SECOND DAT  
ONE DAT 1  
COUNTER DAT 0

## **ZADATAK ZA ZADAĆU : 2 BROJA I OPERACIJA( + ili - )**

```
INP
STA BROJ1
INP
STA BROJ2
INP
STA ZNAK
BIRANJE LDA ZNAK
SUB ONE
BRZ ODUZIMANJE
BRP SABIRANJE

SABIRANJE LDA BROJ1
ADD BROJ2
STA ZBIR
OUT
BRA QUIT

ODUZIMANJE LDA BROJ1
SUB BROJ2
STA RAZLKA
OUT
BRA QUIT

QUIT HLT

BROJ1 DAT
BROJ2 DAT
ZNAK DAT
ZBIR DAT
RAZLIKA DAT
ONE DAT 1
```