

Решење:

```
LD #1000h
ST wrA
ST rdA
LD #2000h
ST wrB
ST rdB
LD #300h
ST cnt
LD #1
ST turn // 1 za A, 2 za B
OUT FF00h
OUT FF10h
LD #0
ST sem
LD #83h
OUT FF20h
```

loop0:

```
IN FF01h
AND #1
JZ loop1
IN FF02h
ST (wrA)
INC wrA
LD wrA
ST wrA
CMP rdA
JLE skip0
LD turn
CMP #1
JNZ skip0
CALL enableIntr2
```

skip0:

```
LD wrA
CMP #1100h
JNZ loop1
LD #0
OUT FF00h
JMP checkFinish
```

loop1:

```
IN FF11h
AND #1
JZ loop0
IN FF12h
ST (wrB)
INC wrB
LD wrB
ST wrB
CMP rdB
JLE skip1
LD turn
CMP #2
JNZ skip1
CALL enableIntr2
```

skip1:

```
LD wrB
CMP #2100h
JNZ loop0
LD #0
OUT FF10h
```

checkFinish:

```
IN FF00h
JNZ loop0
IN FF01h
JNZ loop1
```

wait:

```
LD sem
JZ wait
HALT
```

//PREKIDNA RUTINA PER 2

```
PUSH
LD turn
CMP #1
JZ sendA
```

sendB:

```
LD (rdB)
OUT FF32h
LD #1
ST turn
INC rdB
LD wrA
CMP rdA
JLE skipB
CALL disableIntr2
```

skipB:

```
DEC cnt
JZ finish
JMP back
```

sendA:

```
LD (rdA)
OUT FF32h
LD #2
ST turn
INC rdA
LD wrB
CMP rdB
JLE skipA
CALL disableIntr2
```

skipA:

```
DEC cnt
JZ finish
JMP back
```

finish:

```
LD #0
OUT FF20h
INC
ST sem
```

back:

```
POP
RTI
```