

5. CELINA

(225) 1 int $i[3] = \{5, 6, 7\}$, $j=8$, $k=2$, $\ell=0$;

3 divmod (int a, int b, int c, int d)

4 {
5 $c=a/b$;
6 $d=a \% b$;
7 $\ell=a \% b+1$;

8 }

9 divmod ($i[k]$, j , k , ℓ) ;

a) razmijena vrijednosti:

-zgl. dio programa:

Mem. Adresa		Prije	Poslije	
i.adr	i0.vrij.	5	5	i[0]
i.adr+vel	i1.vrij.	6	6	i[1]
i.adr+2.vel	i2.vrij.	7	7	i[2]
j.adresa	j.vrij.	8	8	j
k.adresa	k.vrij.	2	2	k
l.adresa	l.vrij.	0	1	m

Aktuelni parametri i
lok. podaci

j=8

k=2

o=0

;[1]=;[2]=7

-div.mod:

Mem. adresa

	Prije	Poslije	
Poč.adr. opisnika	i2.vrij.	7	5
j.vrij.	8	8	b
k.vrij.	2	0	c
l.vrij.	0	1	d

Formalni parametri;
2 lokalni parab'

→ pozvana procedura mijenja
iskorištivo LOKALNE
vrijednosti parametara
zapisanih u svom
opisniku

b) Povratna razmjena vrijednosti

-zgl. dio programa

	Prije	Poslije	#1
i0.vrij.	5	5	i[0]
i1.vrij.	6	6	i[1]
i2.vrij.	7	7	i[2]
j.vrij.	8	8	j
k.vrij.	2	0	k
l.vrij.	0	1	m

-div.mod:

	Prije	Poslije	#2
i0.vrij.	5	5	i
i2.vrij.	7	5	a
j.vrij.	8	8	b
k.vrij.	2	0	c
l.vrij.	0	1	d

-spomenimo odr. param. l.vrij.

te se nakon izvršenja procedure i izmjene lok. vrijednosti iste
spomene u memoriji primjenom prot. farnih adresa

c) Razmjena adresa

→ 2. dio programa

→ drevmod:

$$j=8, k=2, l=0$$

$$i[1], j=i[2]=7$$

	Prije	Poslijed.	x_1
i. vrtij.	5	5	$i[0]$
ii. vrtij.	6	6	$i[1]$
iii. vrtij.	7	7	$i[2]$
j. vrtij.	8	8	j
k. vrtij.	0	0	k
l. vrtij.	0	7	l

	Prije	Poslijed.	x_2
i. dchr.			a
j. dchr.			b
k. dchr.			c
l. dchr.			d

d) Razmjena imena

→ 2. dio programa:

→ drevmod:

	Prije	Poslijed.	x_1
i. vrtij.	5	5	$i[0]$
ii. vrtij.	6	6	$i[1]$
iii. vrtij.	7	7	$i[2]$
j. vrtij.	8	8	j
k. vrtij.	0	0	k
l. vrtij.	0	1	l

	Prije	Poslijed.	x_2
i. dchr.			a
j. dchr.			b
k. dchr.			c
l. dchr.			d

- adresa se novou načuna za \forall dohvrat vrijednosti
dokt. parametra

(26.) a) r.v. - glavni()

- $f(a, b)$

	Prije	Poslijed.
x0.vr	1	1
x1.vr	0	0
x2.vr	1	1
y.vr	2	2

	Prije	Poslijed.
y.vr	2	0
xy.vr	1	-1

b) r.a. - glavni()

- f(a,b)

c) r.i.

	Prije	Poslije
X0, vr.	1	1 $\times[0]$
X1, vr.	0	0 $\times[1]$
X2, vr.	1	-1 $\times[2]$
Y, vr	2	0 \times

	Prije	Poslije
Y, achr.	a	
X, achr.	b	

(240.) a) staticko pravilo djeloknoga

→ Opisnik programa glavnih()
Lok. podatci Y=3

→ Opisnik potfug. Z()
Ul. parametri a=4
Upravlji. kuzdlyka
Kazaljka neloč. imena
Lok. podatci r=5

→ Opisnik potpr. Y()
Ul. parametri Y=4
Upravlji. kuz.
Kuz. neloč. imena
Lok. podatci

Opisnik potpr. X()
Ul. param. X=4
Upravlji. kuz
Kuz. neloč. imena
Lok. podatci

b)

— (,) —
dinam. pravilo djeloknoga

(243.) - prikazati razlike meh. nazmjenje adresa / imena

a) mehani zam. nazmjenje adresa

- poziv procedure P u mreku og pridružuje parametru a adresu od

$A[x] = A[0]$ (vrijednost varijable x u trenutku poziva procedure)

- naredba 04 mijenja vrijednost varijable x u 1

(n.e utječe na a)

- naredba 05 mijenja A[0] u 100

- naredba 06 ispisuje 100 20

b) razmijeno imena

- poziv procedure P u mreku 09 pribinjuje param. a imenom $A[x]$

- naredba 04 $\Rightarrow x = 1$

- naredba 05 $\Rightarrow A[x] = 100 \Rightarrow A[1] = 100$

- naredba 06 ispisuje 10 100

(212.) \rightarrow Zap Glavni()

\leftarrow Zap Z(3,7)

Zap X(3)

Zav X(3)

Zap Y(4,7)

Zav Y(4,7)

Zap Z(4,6)

Zap X(4)

Zav X(4)

Zap Y(5,6)

Zav Y(5,6)

Zap Z(5,5)

Zap X(5)

Zav X(5)

Zap Y(6,5)

Zav Y(6,5)

Zap Z(6,4)

Zav Z(6,4)

Zav Z(5,5)

Zap X(8)

Zav X(8)

Zap Y(9,8)

Zav Y(9,8)

Zap Z(9,6)

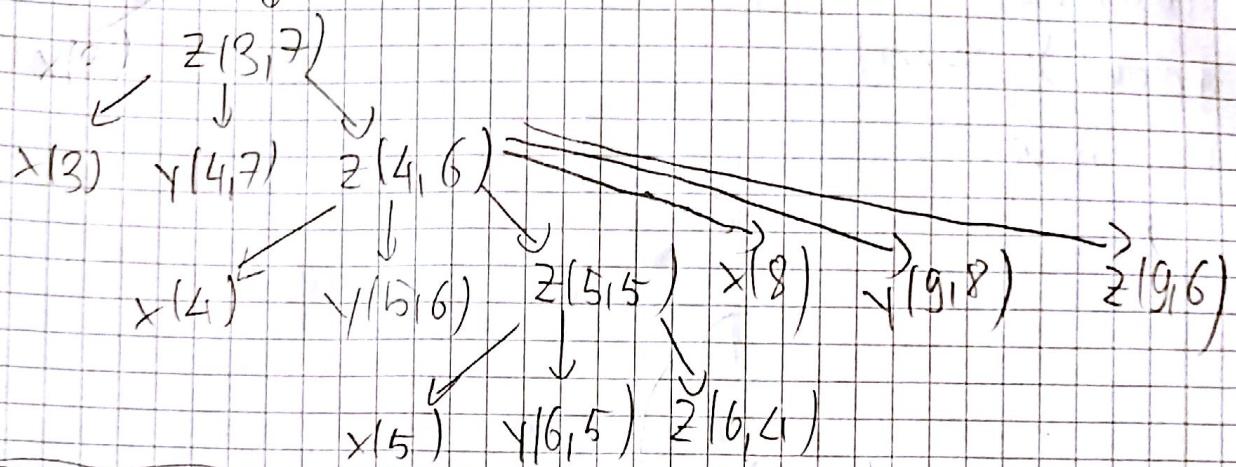
Zav Z(9,6)

Zav Z(4,6)

Zav Z(3,7)

Zav (Glavni)

Glavni()



(244) - mechanizam rozwiązywania równań

zmienna $x=0, y=3, z=-1$

poloż $O = \{0, 0, 0, 10, 20\}$

Rozwiąż (p, q, r) {

$$z = p + x$$

$$z = (q+1) \% 2 + 3;$$

Ispisi (p, x, r)

$$r = z + q$$

$\exists x \ x = 3$ do 4 {

Rozwiąż ($0[x], 0[3+x \% 2], z$)

Ispisi (x, y, z)

X Y Z 0[3] 0[4] p q r

I 0 3 -1 10 20 / / /

II 3 3 -1 10 20 10 20 -1

III 3 3 14 10 20 10 20 4 \rightarrow Ispisi (10, 20, 4)

IV 3 3 24 10 20 10 24 4 \rightarrow Ispisi (3, 3, 24, 10, 20)

V 4 3 24 10 20 20 10 14

VI 4 3 4 10 20 20 10 4

VII 4 3 14 10 20 20 10 14

VIII Ispis (4, 3, 14, 10, 20)

$$z = 10 - 3 = 13 \quad (r=13)$$

$$z = 21 \% 2 + 3 = 4 \quad (r=4)$$

$$k = 2 + q = 4 + 20 = 24 \quad (z=24)$$

$$z = 20 + 4 = 24 \quad (r=24)$$

$$z = 1 \% 2 + 3 = 4 \quad (r=4)$$

$$r = 4 + 10 = 14 \quad (z=14)$$

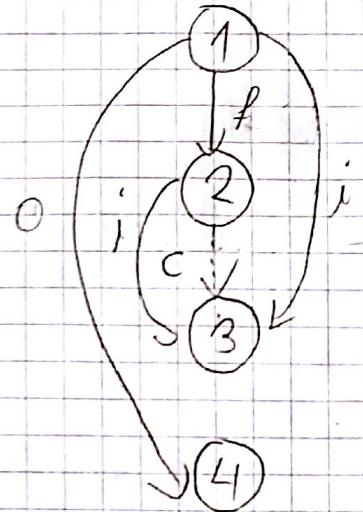
(245) 1) $a = b + 5$

2) $dok(X = 10)$

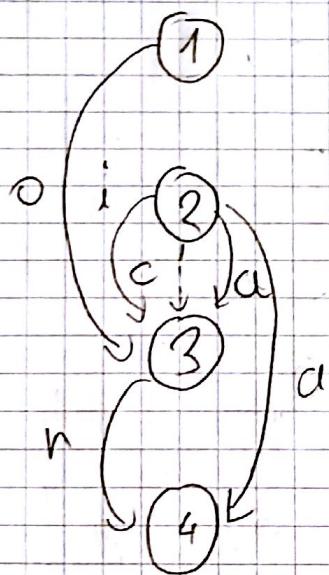
3) $b = X + 3$

4) $X = 20$

a) $X = a$



b) $X = b$



250.

Paritni

B1

$$U_C^b \text{ tag}(x)$$

$$p := 1.0$$

B2

$$L_1: \epsilon := \text{abs}(p - x)$$

$$t <= 1e-9^2$$

p0

$$L_2: \text{JSPISI}(p)$$

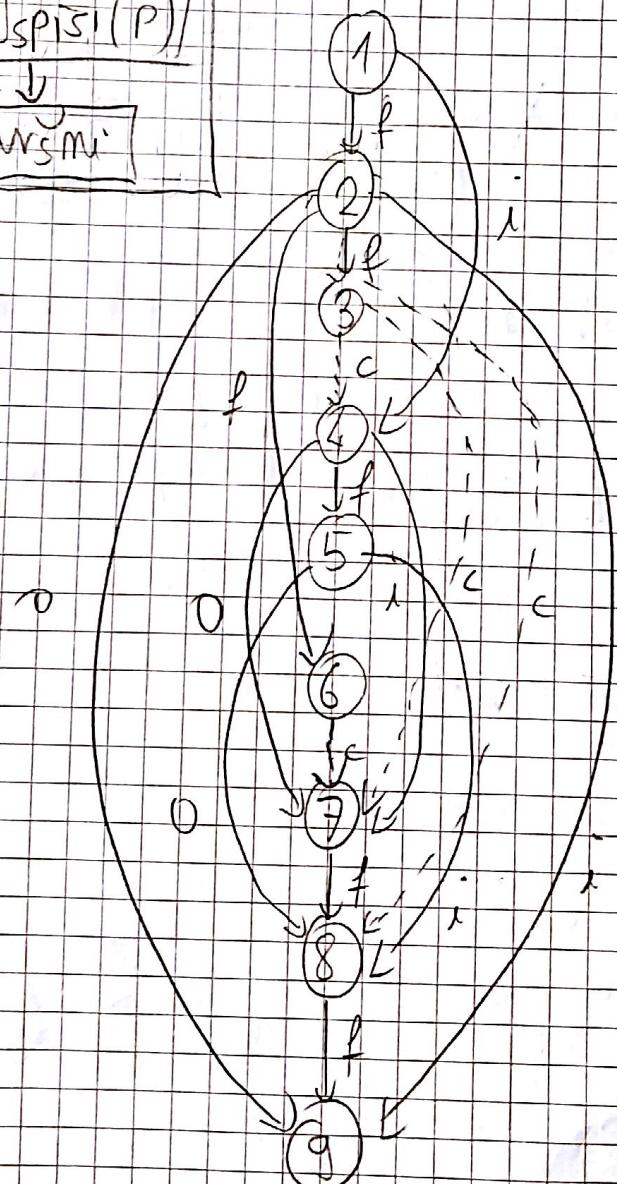
Zavrsni

Ne

$$p := \text{avg}(p, x/p)$$

B3

(251)



$$1) a = 3 + b;$$

$$2) c = d + a;$$

$$3) \text{ako}(b < c) \{$$

$$4) b = b + a;$$

$$5) d = 3 / (b + 2);$$

7)

$$6) \text{inac} \text{ ako}(b = c) \{$$

$$7) b = b + a;$$

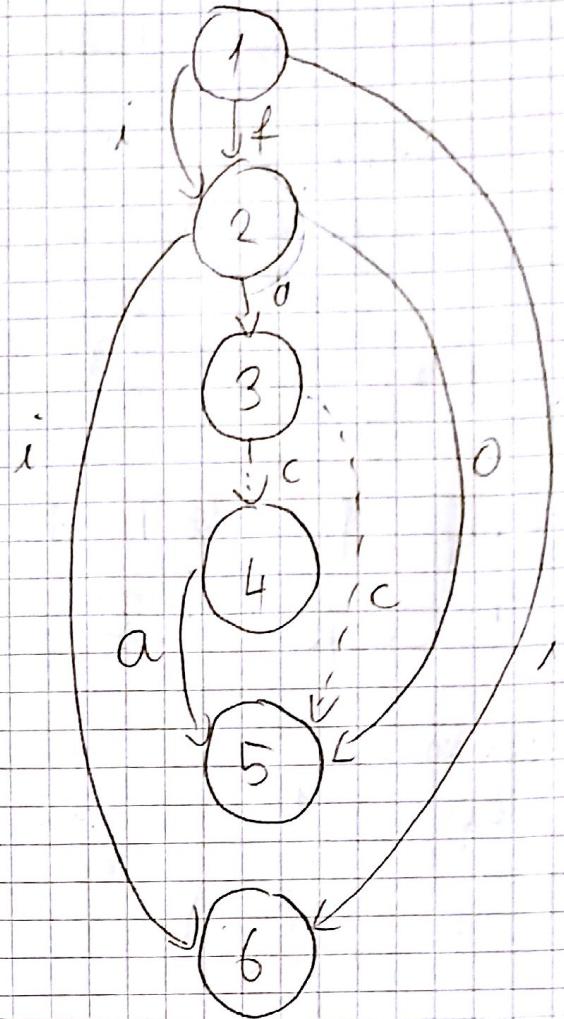
$$8) d = 3 / (b + 2);$$

7)

$$9) c = a + d;$$

256.

- 1) $b := b^3;$
- 2) $a := bcd;$
- 3) $a \text{ ko } a \leq k \leq t \text{ da}$
- 4) $c := a^8;$
- 5) $a := a^8;$
- 6) $d := bcd;$



257. a) Izgrađuju gramatike za parsiranje logičkih izraza:

- 1) $\langle S \rangle \rightarrow \langle E \rangle$
- 2) $\langle E \rangle \rightarrow F(\langle E \rangle)$
- 3) $\langle E \rangle \rightarrow \langle E \rangle A \langle E \rangle$
- 4) $\langle E \rangle \rightarrow \langle E \rangle V \langle E \rangle$
- 5) $\langle E \rangle \rightarrow l o \ddot{z}$
- 6) $\langle E \rangle \rightarrow \text{istira}$

b) Prošimj utvrdite gramatike otkri butirno:

- 1) $\langle S \rangle_{\text{kod}} \rightarrow \langle E \rangle_{\text{imo1, kod1}}$
- 2) $\langle E \rangle_{\text{imo1, kod1}} \rightarrow F(\langle E \rangle_{\text{imo2, kod2}})$
- 3) $\langle E \rangle_{\text{imo1, kod1}} \rightarrow \langle E \rangle_{\text{imo2, kod2}} A \langle E \rangle_{\text{imo3, kod3}}$
- 4) $- \quad | \quad | \quad - \quad - \quad | \quad | \quad - \quad V \quad . \quad - \quad | \quad | \quad -$
- 5) $\langle E \rangle_{\text{imo1, kod1}} \rightarrow l o \ddot{z}_{\text{imo2}}$
- 6) $\langle E \rangle_{\text{imo1, kod1}} \rightarrow \text{istira}_{\text{imo2}}$

c) Prosimivomjeqnom. v kaj skim znakovima:

1) $\langle S \rangle_{\text{kod}} \rightarrow \langle E \rangle_{\text{ime1, kod1}}$

$$\left\{ \begin{array}{l} \text{kod1} = \text{Kod1}; \\ \end{array} \right\}$$

2) $\langle E \rangle_{\text{ime1, kod1}} \rightarrow \Gamma(\langle E \rangle_{\text{ime2, kod2}})$

$$\left\{ \begin{array}{l} \text{Jmo1} = \text{NovoJmo}(1); \\ \end{array} \right\}$$

$$\left\{ \begin{array}{l} \text{kod1} = \text{Genomiraj}(\text{kod2}) | \text{Jmo1} = \text{not}(\text{Jmo2}); \\ \end{array} \right\}$$

3) $\langle E \rangle_{\text{ime1, kod1}} \rightarrow \times \langle E \rangle_{\text{ime2, kod2}} \wedge \langle E \rangle_{\text{ime3, kod3}}$

$$\left\{ \begin{array}{l} \text{Jmo1} = \text{NovoJmo}(1); \\ \end{array} \right\}$$

$$\left\{ \begin{array}{l} \text{kod1} = \text{Genomiraj}(\text{kod2} || \text{kod3}) | \text{Jmo1} = \text{"Jmo2 and Jmo3"}; \\ \end{array} \right\}$$

4) $\overline{1} \quad \overline{1} \quad \overline{1} \quad \overline{1} \quad \overline{1} \quad \overline{1} \quad \overline{1} \quad \overline{1}$
 $\overline{\overline{1}} \quad \overline{\overline{1}} \quad \overline{\overline{1}} \quad \overline{\overline{1}} \quad \overline{\overline{1}} \quad \overline{\overline{1}} \quad \overline{\overline{1}} \quad \overline{\overline{1}}$
 $\overline{\overline{\overline{1}}} \quad \overline{\overline{\overline{1}}} \quad \overline{\overline{\overline{1}}} \quad \overline{\overline{\overline{1}}} \quad \overline{\overline{\overline{1}}} \quad \overline{\overline{\overline{1}}} \quad \overline{\overline{\overline{1}}} \quad \overline{\overline{\overline{1}}}$
 $\left\{ \begin{array}{l} \text{Jmo2 or Jmo3}; \\ \end{array} \right\}$

5) $\langle E \rangle_{\text{ime1, kod1}} \rightarrow \text{loc2}_{\text{ime2}}$

$$\left\{ \begin{array}{l} \text{Jmo1} = 0; \\ \text{kod1} = \text{Genomiraj}(" "); \end{array} \right\}$$

6) $\langle E \rangle_{\text{ime1, kod1}} \rightarrow \text{istina}_{\text{ime2}}$

$$\left\{ \begin{array}{l} \text{Jmo1} = 1; \\ \text{kod1} = \text{Genomiraj}(" "); \end{array} \right\}$$

153. a) Zadani gram. za parsinomije log. i 2020:

$$1) \langle S \rangle \rightarrow \langle E \rangle, 2) \langle E \rangle \rightarrow \langle E \rangle + \langle E \rangle,$$

$$3) \langle E \rangle \rightarrow \langle E \rangle^* \langle E \rangle, 4) \langle E \rangle \rightarrow (\langle E \rangle)$$

$$5) \langle E \rangle \rightarrow \text{IDN}$$

b) Prošinivanje gramatičke atributima:

$$1) \langle S \rangle_{\text{kod}} \rightarrow \langle E \rangle_{i\text{m}o1, \text{kod}1}, 2) \langle E \rangle_{i\text{m}o1, \text{kod}1} \rightarrow \langle E \rangle_{i\text{m}o2, \text{kod}2} + \langle E \rangle_{i\text{m}o3, \text{kod}3},$$

$$3) \langle E \rangle_{i\text{m}o1, \text{kod}1} \rightarrow \langle E \rangle_{i\text{m}o2, \text{kod}2} * \langle E \rangle_{i\text{m}o3, \text{kod}3}$$

$$4) \langle E \rangle_{i\text{m}o1, \text{kod}1} \rightarrow (\langle E \rangle_{i\text{m}o2, \text{kod}2}), 5) \langle E \rangle_{i\text{m}o1, \text{kod}1} \rightarrow \text{IDN}_{i\text{m}o2}$$

c) Prošinivanje gramatičke akcijskim znakovima:

$$1) \langle S \rangle_{\text{kod}} \rightarrow \langle E \rangle_{i\text{m}o1, \text{kod}1}$$
$$\quad \quad \quad \left\{ \begin{array}{l} \text{kod} = \text{kod}1 \\ \text{Jm}o1 = \text{Novo Jm}o1 \end{array} \right\}$$

$$2) \langle E \rangle_{i\text{m}o1, \text{kod}1} \rightarrow \langle E \rangle_{i\text{m}o2, \text{kod}2} + \langle E \rangle_{i\text{m}o3, \text{kod}3}$$
$$\quad \quad \quad \left\{ \begin{array}{l} \text{Jm}o1 = \text{Novo Jm}o1 \\ \text{kod}1 = \text{Gemominaj}(\text{kod}2 || \text{kod}3 || \text{Jm}o1) = " \text{Jm}o2 + \text{Jm}o3 " \end{array} \right\}$$

$$3) - \quad - \quad - \quad (\dots) ^* \quad \text{Jm}o3 \quad ; \quad \left\{ \begin{array}{l} \text{Jm}o1 = \text{Novo Jm}o1 \\ \text{kod}1 = \text{Gemominaj}(\text{kod}2 || \text{kod}3 || \text{Jm}o1) \end{array} \right\}$$

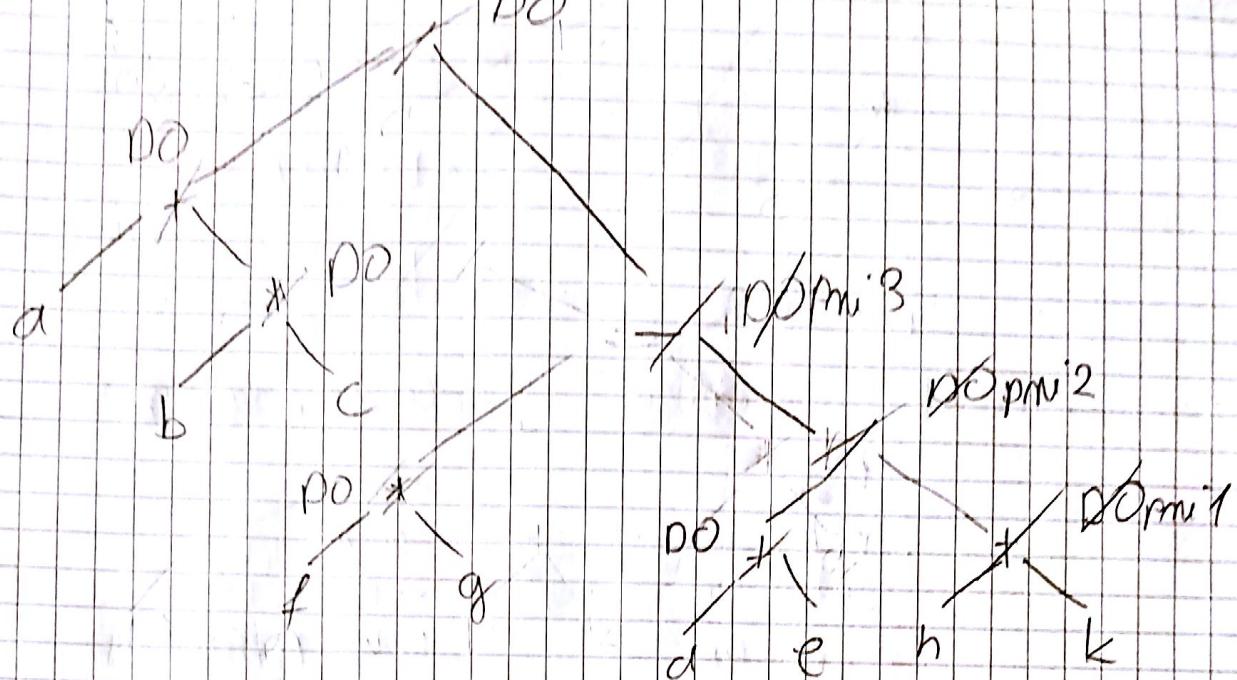
$$4) \langle E \rangle_{i\text{m}o1, \text{kod}1} \rightarrow (\langle E \rangle_{i\text{m}o2, \text{kod}2})$$
$$\quad \quad \quad \left\{ \begin{array}{l} \text{Jm}o1 = \text{Jm}o2 \\ \text{kod}1 = \text{Gemominaj}(\text{kod}2) \end{array} \right\}$$

$$5) \langle E \rangle_{i\text{m}o1, \text{kod}1} \rightarrow \text{IDN}_{i\text{m}o2}$$

$$\quad \quad \quad \left\{ \begin{array}{l} \text{Jm}o1 = \text{Jm}o2 \\ \text{kod}1 = \text{Gemominaj}(" ") \end{array} \right\}$$

7. GENERIRANJE CILJNOG PROGRAMA

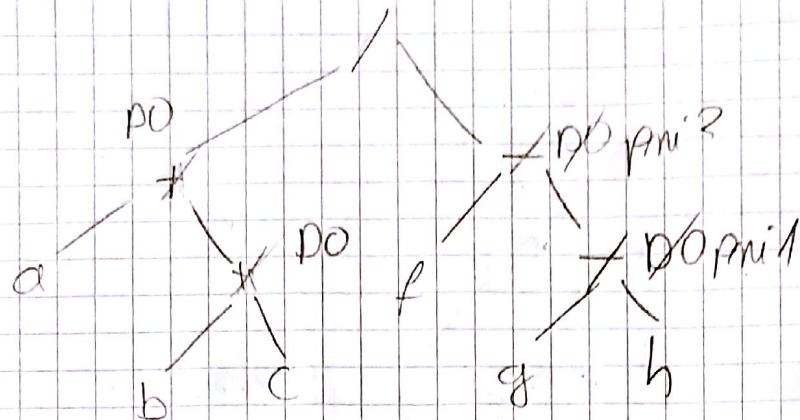
$$(274) \quad ((a+b^c)/(f^g - (d+e)))/(h+k)$$



Generiranje ciljnog programa:

	Pronalazak mičev ruk	Akcijsa generacija	Ciljni program
1)	/	$O(DC)$	
2)	-	$O(DX)$	
3)	/	$O(DY)$	
4)	+	$O(CP), C = DO$	$MOVE h, DO$
5)	/	$O(CY), DC = pmu_1$	$APP k, DO$
6)	/	$O(LC)$	$MOVE DO, pmu_1$
7)	+	$O(CP), C = DO$	$MOVE d, DO$
8)	/	$O(CP), C = DO$	$APP e, DO$
9)	-	$O(CY) + DC = pmu_2$	$DIV pmu_1, DO$
10)	-	$O(LC)$	$MOVE DO, pmu_2$
11)	*	$O(CP), C = DO$	$MOVE f, DO$
12)	-	$O(CP), C = DO$	$MUL g, DO$
13)	/	$O(CY), DC = pmu_3$	$SUB pmu_2, DO$
14)	/	$O(LC)$	$MOVE DO, pmu_3$
15)	+	$O(DC)$	
16)	*	$O(SP), C = DO$	$MOVE b, DO$
17)	+	$O(SP), Y = DO$	$MUL g, DO$
18)	*	$O(SP), Y = DO$	$APP a, DO$

$$276 \quad (a+b^T c) / (f-g-h)$$



Promatranični čvor Akcija generatora

- 1) /
- 2) -
- 3) -
- 4) -
- 5) -
- 6) /
- 7) /
- 8) +
- 9) *
- 10) +
- 11) /

$O(PC)$
 $O(PO)$
 $O(\gamma p), \gamma = PO$
 $O(\gamma), PC = PMI_1$
 $O(\gamma p), \gamma = PO$
 $O(\gamma), PC = PMI_2$

$O(LY)$
 $O(PY)$
 $O(\gamma p), \gamma = PO$
 $O(\gamma p), \gamma = PO$

Gilični program

MOVE g, PO
SUB h, PO
MOVE po, PMI_1
MOVE f, PO
SUB f, PMI_1
MOVE po, PMI_2

MOVE b, PO
MUL c, PO
ADD a, PO
DIV PMI_2, PO

$$277. \quad P = (a + b^T c) + d/e - (d/a) \times e$$

$$PMI_1 = b^T c$$

$$PMI_2 = a + PMI_1$$

$$PMI_3 = d/e$$

$$PMI_4 = d/a$$

$$PMI_5 = PMI_4 \times e$$

$$PMI_6 = PMI_3 - PMI_5$$

$$P = PMI_2 + PMI_6$$

Naslovne matrikočki | Gemerirani aljni program | Čipnik registrata | Opisnik podatkov

$pni1 = b/c$	MOVE b, D0 DIV c, D0	D0; pni1	a, b, c, d, e; Mem. pni1; D0
$pni2 = a + pni1$	MOVE a, D1 ADD D0, D1	D0; pni1 D1; pni2	a, b, c, d, e; Mem. pni1; D0 pni2; D1
$pni3 = d/e$	MOVE d, D0 DIV e, D0	D0; pni3 D1; pni2	a, b, c, d, e; Mem. pni3; D0 pni2; D1
$pni4 = d \times e$	MOVE d, D2 ADD e, D2	D0; pni3 D1; pni2 D2; pni4	a, b, c, d, e; Mem. pni3; D0 pni2; D1 pni4; D2
$pni5 = pni4 \times e$	MUL e, D2 D0; D2, D2	D0; pni3 D1; pni2 D2; pni5	a, b, c, d, e; Mem. pni3; D0 pni2; D1 pni5; D2
$pni6 = pni3 - pni5$	SUB D2, D0 D0; D0, D0	D0; pni6 D1; pni2	a, b, c, d, e; Mem. pni6; D0 pni2; D1
$p = pni2 + pni6$	ADD D1, D0 D0; D0, D0	D0; p	a, b, c, d, e; Mem. p; D0

21.2.2008.

odsjorka

Q. Postupak optimiziranja zasnovan na programu u šinu 3 naredba

MOVE var1, DO } var1 → DO

MOVE D1, var1 } D1 → var1

JMP O_{2n13}

INC DO → nedohvatljiva naredba

O_{2n13}, JMP O_{2n15} → optimiziranje tijeka izvođenja programa

O_{2n15}, INC D1

INC DO

DEC D1

MOVE var1, DO

MOVE D1, var1

JMP O_{2n13} → optimiziranje tijeka izvođenja programa

O_{2n13}, JMP O_{2n15} → optimiziranje tijeka izvođenja programa

O_{2n15}, WC D1

INC DO

DEC D1

MOVE var1, DO

MOVE D1, var1

JMP O_{2n15}

optimiziranje tijeka izvođenja programa

O_{2n15}, INC D1

INC DO

DEC D1

D2: MOVE var1, DO

MOVE D1, var1

JMP O_{2n15}

O_{2n15}, INC DO

21. 2013.

⑥ P_n, I_n

- 1 $a=2$: a) Kompiletorom: $P_1 \rightarrow P_2 \rightarrow P_3 \rightarrow P_4 \rightarrow I_1 \rightarrow I_2 \rightarrow I_3 \rightarrow I_4$
2 while ($a > 0$) $\rightarrow I_2 \rightarrow I_1 \rightarrow I_2 \rightarrow I_4$
3 $a = a - 1$:
4 print (a): b) Interpretatorom: $P_1 \rightarrow I_1 \rightarrow P_2 \rightarrow I_2 \rightarrow P_3 \rightarrow I_3 \rightarrow P_2 \rightarrow I_2 \rightarrow P_3 \rightarrow I_3 \rightarrow P_2 \rightarrow I_2 \rightarrow P_4 \rightarrow I_4$

⑦ MOVE #10, D1

L1:

MOVE #20, D2

-unazadne = $\{(L_1, \text{koz}, \text{jko na 3. narratu})\}$

L1: CMP D1, D2

-unaprijedne = $\{\}$

L2: JUMP D1 L3

ADD D1, 1

L2:

JMP L1

-unazadne = $\{(L_1, \text{koz}, \text{jko na 3. narratu})\}$

L3: MOVE D1, C

-unaprijedne = $\{(L_2, \text{koz}, \text{jko na 4. narratu})\}$

-unazadne = $\{(L_3, \text{koz}, \text{jko na 4. narratu})\}$

L3: -unazadne = $\{(L_1, \text{koz}, \text{na 3. narr.}), (L_2, \text{koz}, \text{na 4. narr.}), (L_3, \text{koz}, \text{na 7. narr.})\}$

-unaprijedne = $\{\}$

(10.) int f(int a, int b) {

int *x = &a; (x, a)

int *y = &a; (x, a), (y, a)

int *z = &a; (x, a), (y, a), (z, a)

int c;

if (a < b) {

z = &c; (x, a), (y, a), (z, c)

y

else {

z = y; (x, a), (y, a), (z, a)

}

*z = 30;

relacije → adrese koje varijable
sadrži → pointer

return *z;

}

Glavni Proc

(6.)

a VL0] VL1] X Y a

Prije	0	7	8	7	7	0	1) razmjena vrijednosti:
Poslije	1	7	8	7	1	1	→ ispis: 1 7 8

Prije	0	7	8	7	7	0	2) razmjena adresa
Poslije	1	1	7	7	1	1	→ ispis: 1 7 8

Prije	0	7	8	7	7	0	3) razmjena imena
Poslije	1	7	1	7	1	1	→ ispis: 1 7 1

7) PRIMJENI LL(1) 2.

$$1) S \rightarrow bX \rightarrow \text{PRIMJENI}(1) = \{b\} \quad \checkmark$$

$$2) S \rightarrow aS \rightarrow - 11 - (2) = \{a\}$$

$$3) X \rightarrow Y \rightarrow - 11 - (3) = \{Y\} \quad \checkmark$$

$$4) X \rightarrow a \rightarrow - 11 - (4) = \{a\}$$

$$5) Y \rightarrow SaX \rightarrow - 11 - (5) = \text{ZAPORNJE}(S) \cup \text{ZAPORNJE}(a) = \{a, b\}$$

$$6) Y \rightarrow c \rightarrow - 11 - (6) = \{c\}$$

$$7) Y \rightarrow \epsilon \rightarrow - 11 - (7) = \text{SLUENI}(Y) = \{\}$$

su

Zadana gramatika je LL(1) zato što svih PRIMJENI skupovi produkcijskih ćelija su s istim redovnim znakovima dijunktivni.

9.

$$1) p = 1;$$

$$2) i = 20;$$

$$3) a = i / 4;$$

$$4) d_{k0}(i > 3)$$

{

$$5) q = q + i / a;$$

$$6) a_{k0}(a < 10)$$

{

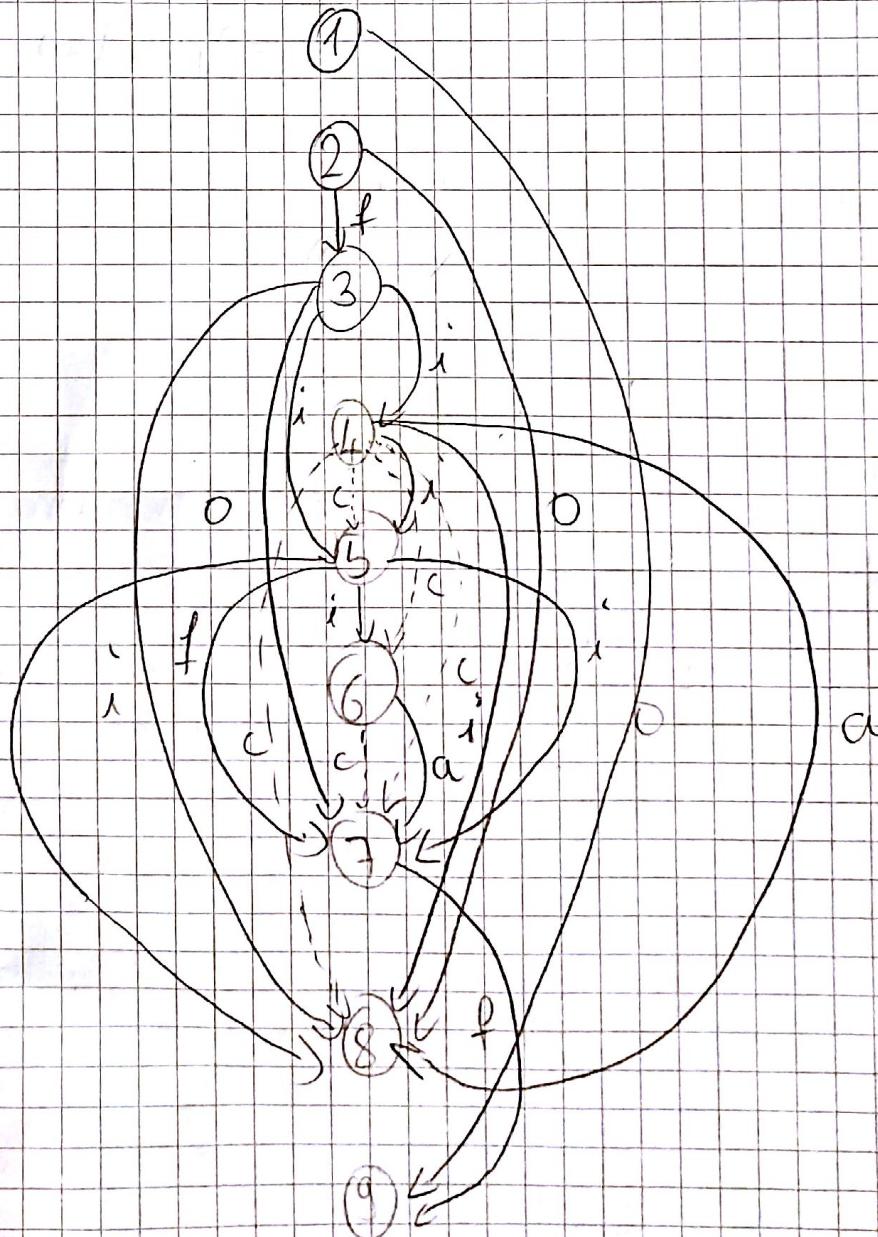
$$7) a = q^k p;$$

}

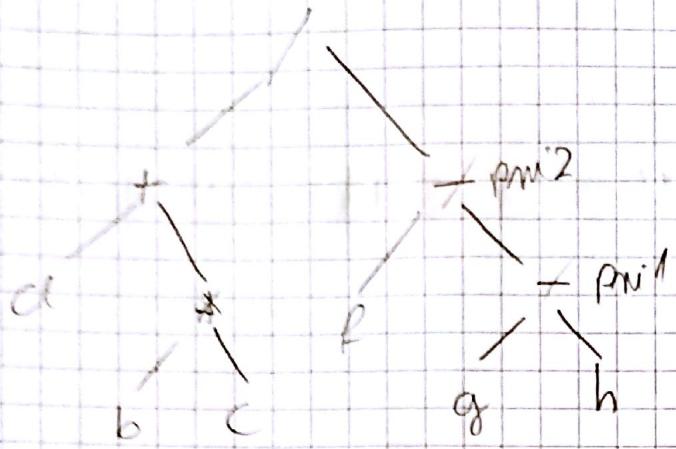
$$8) i = i - 1;$$

{

$$9) p = 3^k a;$$



10.



Fürmatnami von Akaij generatino Gilji program

1) $(b \cdot c)$

2) -

3) -

4) -

5) -

6) ✓

7) ✓

8) +

9) *

10) +

11) ✓

$o(b \cdot c)$

$o(c \cdot p)$

$o(c \cdot p), c = D0$

$o(c \cdot p), pc = pmi^1$

$o(c \cdot p), c = D0$

$o(c \cdot p), pc = pmi^2$

$o(c \cdot p)$

$o(p \cdot r)$

$o(c \cdot p), c = D0$

$o(c \cdot p), c = D0$

MOVE g, D0

SUB h, D0

MOVE D0, pmi^1

MOVE R, D0

SUB D0, pmi^1

MOVE D0, pmi^2

MOVE b, D0

MUL c, D0

ADD a, D0

DIV D0, pmi^2