班级:计84 姓名:刘泓鸢编号:2018011446科目:

第

4.
$$S \rightarrow for (\{S_i'.next := newlabel\} S_i';$$
 $\{E.true := newlabel; E.false := S.next\} E;$
 $\{S_i'.next := S_i'.next\} S_i')$
 $\{S_i.next := newlabel\} S_i$
 $\{S_i.next := newlabel\} S_i$
 $\{S_i.code := S_i'.code || gen(S_i'.next':') || E.code || gen(E.true':') || S_i.code || gen(S_i.next':') || S_i'.code || gen(S_i.next':') || S_i'.code || gen(S_i'.next) \}$

Si.code to E.true Sinext to E.false E. code E, true Si. code S_1 next St. code goto Si.next

上級

S-> for (Si' 3 MIE3 M2 SU'NI) M3 SIN2 { back patch (E. truelist, M3, gotostm); backpatch (Si. nextlist, Mz.gotostm); back patch (Si'.nextlist, Mr. gotostm); backpatch (Si. nextlist, Mr. gotostm); backpatch (Ni.nextlist, Migotostm); backpatch (Nz.nextlist, Mz.gotostm); S.nextlist := E.falselist; }

```
姓名:
                              编号:
10. A. (a) E → EITEZ
                                             科目:
                   1 Ez. label = E. label
                      Ez. case = not E. cuse ;
                      E1. case = false;
                                                      (若E、Ccuse为1. 则 Elittle
                      if E. case {
                                                      为false时直接助到
                          Eilabel = Elabel
                                                            E. label处)
                          E.code = E.code 11 Ez.code
                      Jelse!
                           E. (abel = new label)
                           E. code = E1.code || Ez.code || gen(E.latel':')
                                            (若E. cue为O. 则新发以下label
                                             当Ei为falseAfE的到 newlabel.
                                            研角豆)
    (b) S > repeat S, until E
                                             (路 until 和 while 試相反)
                 1 Si, next = newlabel;
                   E. case = false;
                   E. label = Sinext;
                  S. code= gen (Si, next ':') || Si. code || E. code || gen (S. next')
            E>1E1. talse=Etalse } E1, true=newlabel } E1?
   AI.
                 fEx, false = E. talse; Ex. true = newlabel ] Ez: Extrue
                 (Es, true = E. talse; Es, talse = E. true? Es Estrue
                 1 E-code = Ei.code 11 gen(Ei.true ':') 1 Es. code 11
                                                                     t3.code
                  gen (Ez. true ':') || Ez. code }
Az: E> E: MiEz: MzEz | backpatch (Ei, true list, Mi. gotostm)
                              back patch (Es. truelist, Mr. gotostm);
E. truelist= Ez. truelist;
                              E. truenst- mege (merge (E. takelist, 53. takeust), E. takelist ; takeust),
```

```
Az. (1)
                                       A > AI+AZ } A. Instr = AI. instr | Az. instr | Plus
                                            A> A1-A2 | A. instr= Az. instr | A1. instr / Minus ].
                (7)
                                                  E-> E, if B { E,instr = E,instr | B,instr | Cond }
                                                                                                     A. instr = Load id.val }
                                                   B=> A17 AZ | Binstr=Az, InstrUA, instrU Minus | Comp | Az, instrU B=> B1 & Bz | Binstr=Bz. instrUB, instrUCond }.

B=> 1 R. | Dinstr=Bz. instrUB, instrUCond }.
                                                     A->id
                                                                                                    Binstr= Push 211 Push 211 Binstr11 Minus 11 Cond
                                                                                                 1 B. instr = Push 13
                                                       B->true
                                                                                                        B. firstr = Push 0
                                                       B> false
                                                                                                  { Sinstr = Einstr | Store id.val}
                                                        5-11 =E
                                                                                                      Sinstr = Sinstr | Szinstr
                                                       5-51,52
                  (A1-A20) if (A1-A2 +0) else 0
                                                         L->id 1 L. types = [100kup-type(idientry)}
A4. 解:(1)
                                                        L>id.L. 1L. types = [lookup-type (id.entry)]+Li.types)
                                                                                   { R.types=[E.type]]
                                                         R> E. R. { R. types = [E.type]+R., types]
                                                        S> LI=R { S. type = if Letypes = R. types then ok
                                               L> id { L. places = [id. place]}
                                              L>id, L, IL. places = [id.place]+ L.places]
                                                R>E {R.places = [E.place]; R.codes = [E.code]}
                                          L> Idili | L. |

R. places = [E. place], R. places; R-codes=[E. code]+

R. places = [E. place] + R. places; R-codes=[E. code]+

R. places = [E. place] + R. places; R-codes=[E. code]+

R. places = [E. place] + R. places; R-codes=[E. code]+

R. places = [E. place], R. places; Codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place], R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R. places; R. codes=[E. code]+

S. code = [E. place]+ R.
```

姓名: 编号: 科目: 第 页

(3)

Some is lent Redeplaces) to lent. places) to do

Sicode = Sicode | gen(Liplaces Ciji==";

if Litype = both then

Siebool:=[Liplaces Cij]+Siebool

else

班级:

end z = [L.places[i]] + S.eint

S> begin 5, end default E. Ez {S. code := E. code || Ez. code||

Cocodo:

back patch (Si, elod, E, place); back patch (Si, eint, Ez. place);