冠捷 10set

Objective value: 43.6687903443 0 21 2 : 1.0 0 21 3 : 1.0 0 17 1 : 1.0 1 4 1 : 1.0 2 16 1 : 1.0 3 6 1 : 1.0 4 14 1 : 1.0 5 8 1 : 1.0 6 10 1 : 1.0 7 13 1 : 1.0 8 15 1 : 1.0 9 18 1 : 1.0 10 20 1 : 1.0 11 12 1 : 1.0 12 5 1 : 1.0 13 3 1 : 1.0 14 7 1 : 1.0 15 19 1 : 1.0 16 11 1 : 1.0 17 2 1 : 1.0 18 21 1 : 1.0 19 1 1 : 1.0 20 9 1 : 1.0

﻿Obj: 82.305508

x\_0\_3\_1: 1.000000

x\_0\_9\_0: 1.000000

x\_0\_21\_2: 1.000000

x\_1\_7\_0: 1.000000

x\_2\_11\_0: 1.000000

x\_3\_13\_1: 1.000000

x\_4\_14\_0: 1.000000

x\_5\_15\_0: 1.000000

x\_6\_16\_1: 1.000000

x\_7\_18\_0: 1.000000

x\_8\_1\_0: 1.000000

x\_9\_19\_0: 1.000000

x\_10\_20\_1: 1.000000

x\_11\_5\_0: 1.000000

x\_12\_4\_0: 1.000000

x\_13\_10\_1: 1.000000

x\_14\_21\_0: 1.000000

x\_15\_12\_0: 1.000000

x\_16\_21\_1: 1.000000

x\_17\_2\_0: 1.000000

x\_18\_17\_0: 1.000000

x\_19\_8\_0: 1.000000

x\_20\_6\_1: 1.000000

全部cus

﻿Cutting planes:

Gomory: 1

Implied bound: 49

MIR: 72

StrongCG: 16

Flow cover: 370

Zero half: 104

Explored 72970 nodes (13309600 simplex iterations) in 3600.10 seconds

Thread count was 4 (of 4 available processors)

Solution count 10: 226.537 226.537 226.537 ... 240.124

Time limit reached

Best objective 2.265372420333e+02, best bound 1.634793658821e+02, gap 27.8355%

Obj: 226.537242

x\_0\_2\_0: 1.000000

x\_0\_9\_2: 1.000000

x\_0\_20\_1: 1.000000

x\_1\_25\_0: 1.000000

x\_2\_5\_0: 1.000000

x\_3\_27\_2: 1.000000

x\_4\_28\_2: 1.000000

x\_5\_1\_0: 1.000000

x\_6\_36\_1: 1.000000

x\_7\_31\_1: 1.000000

x\_8\_7\_1: 1.000000

x\_9\_17\_2: 1.000000

x\_10\_34\_2: 1.000000

x\_11\_46\_2: 1.000000

x\_12\_24\_1: 1.000000

x\_13\_16\_0: 1.000000

x\_14\_41\_2: 1.000000

x\_15\_30\_1: 1.000000

x\_16\_40\_0: 1.000000

x\_17\_33\_2: 1.000000

x\_18\_37\_0: 1.000000

x\_19\_23\_2: 1.000000

x\_20\_8\_1: 1.000000

x\_21\_39\_1: 1.000000

x\_22\_11\_2: 1.000000

x\_23\_47\_2: 0.999999

x\_23\_49\_2: 0.000001

x\_24\_48\_1: 1.000000

x\_25\_26\_0: 1.000000

x\_26\_29\_0: 1.000000

x\_27\_10\_2: 1.000000

x\_28\_19\_2: 1.000000

x\_29\_13\_0: 1.000000

x\_30\_21\_1: 1.000000

x\_31\_44\_1: 1.000000

x\_32\_12\_1: 1.000000

x\_33\_14\_2: 1.000000

x\_34\_4\_2: 1.000000

x\_35\_3\_2: 1.000000

x\_36\_15\_1: 1.000000

x\_37\_42\_0: 1.000000

x\_38\_35\_2: 1.000000

x\_39\_45\_1: 1.000000

x\_40\_18\_0: 1.000000

x\_41\_22\_2: 1.000000

x\_42\_49\_0: 1.000000

x\_43\_49\_2: 0.999999

x\_44\_32\_1: 1.000000

x\_45\_49\_1: 1.000000

x\_46\_38\_2: 1.000000

x\_47\_43\_2: 1.000000

x\_48\_6\_1: 1.000000

Q\_1\_0: 3.000000

Q\_1\_1: 1.000000

Q\_1\_2: 1.000000

Q\_2\_0: 1.000000

Q\_2\_1: 5.000000

Q\_2\_2: 1.000000

Q\_3\_0: 1.000000

Q\_3\_1: 1.000000

Q\_3\_2: 1.000000

Q\_4\_0: 6.000000

Q\_4\_1: 6.000000

Q\_4\_2: 1.000000

Q\_5\_0: 2.000000

Q\_5\_1: 6.000000

Q\_5\_2: 1.000000

Q\_6\_0: 6.000000

Q\_6\_1: 2.000000

Q\_6\_2: 5.000000

Q\_7\_0: 1.000000

Q\_7\_1: 3.000000

Q\_7\_2: 1.000000

Q\_8\_0: 1.000000

Q\_8\_1: 2.000000

Q\_8\_2: 1.000000

Q\_9\_0: 6.000000

Q\_9\_1: 6.000000

Q\_9\_2: 1.000000

Q\_10\_0: 1.000000

Q\_10\_1: 1.000000

Q\_10\_2: 1.000000

Q\_11\_0: 6.000000

Q\_11\_1: 1.000000

Q\_11\_2: 3.000000

Q\_12\_0: 6.000000

Q\_12\_1: 1.000000

Q\_12\_2: 1.000000

Q\_13\_0: 1.000000

Q\_13\_1: 6.000000

Q\_13\_2: 1.000000

Q\_14\_0: 1.000000

Q\_14\_1: 6.000000

Q\_14\_2: 2.000000

Q\_15\_0: 6.000000

Q\_15\_1: 2.000000

Q\_15\_2: 1.000000

Q\_16\_0: 2.000000

Q\_16\_1: 6.000000

Q\_16\_2: 1.000000

Q\_17\_0: 1.000000

Q\_17\_1: 1.000000

Q\_17\_2: 2.000000

Q\_18\_0: 2.000000

Q\_18\_1: 6.000000

Q\_18\_2: 1.000000

Q\_19\_0: 6.000000

Q\_19\_1: 6.000000

Q\_19\_2: 1.000000

Q\_20\_0: 1.000000

Q\_20\_1: 1.000000

Q\_20\_2: 1.000000

Q\_21\_0: 6.000000

Q\_21\_1: 2.000000

Q\_21\_2: 6.000000

Q\_22\_0: 1.000000

Q\_22\_1: 1.000000

Q\_22\_2: 2.000000

Q\_23\_0: 6.000000

Q\_23\_1: 6.000000

Q\_23\_2: 2.000000

Q\_24\_0: 1.000000

Q\_24\_1: 2.000000

Q\_24\_2: 6.000000

Q\_25\_0: 4.000000

Q\_26\_0: 3.000000

Q\_26\_1: 5.000000

Q\_27\_0: 5.000000

Q\_27\_2: 2.000000

Q\_28\_2: 2.000000

Q\_29\_0: 2.000000

Q\_30\_1: 3.000000

Q\_30\_2: 5.000000

Q\_31\_1: 4.000000

Q\_32\_1: 2.000000

Q\_33\_0: 5.000000

Q\_33\_2: 3.000000

Q\_34\_2: 2.000000

Q\_35\_2: 2.000000

Q\_36\_1: 3.000000

Q\_37\_0: 3.000000

Q\_38\_0: 1.000000

Q\_38\_1: 5.000000

Q\_38\_2: 3.000000

Q\_39\_1: 3.000000

Q\_40\_0: 3.000000

Q\_41\_2: 3.000000

Q\_42\_0: 2.000000

Q\_42\_1: 5.000000

Q\_43\_2: 1.999998

Q\_44\_1: 3.000000

Q\_45\_1: 2.000000

Q\_46\_0: 5.000000

Q\_46\_2: 4.000000

Q\_47\_0: 5.000000

Q\_47\_2: 2.999997

Q\_48\_1: 3.000000

Q\_49\_0: 6.000000

Q\_49\_1: 6.000000

Q\_49\_2: 6.000000

T\_0\_0: 64.505001

T\_0\_1: 64.505001

T\_0\_2: 64.505001

T\_1\_0: 270.072558

T\_1\_1: 168.000000

T\_1\_2: 168.000000

T\_2\_0: 239.000000

T\_2\_1: 299.569432

T\_2\_2: 317.675833

T\_3\_0: 147.968427

T\_3\_1: 197.076721

T\_3\_2: 223.786969

T\_4\_0: 375.022998

T\_4\_1: 448.309375

T\_4\_2: 414.374603

T\_5\_0: 256.281444

T\_5\_1: 285.220159

T\_5\_2: 215.000000

T\_6\_0: 439.196363

T\_6\_1: 379.117980

T\_6\_2: 413.196363

T\_7\_0: 112.000000

T\_7\_1: 218.824467

T\_7\_2: 112.000000

T\_8\_0: 204.076982

T\_8\_1: 199.905186

T\_8\_2: 174.283591

T\_9\_0: 66.751282

T\_9\_1: 66.751282

T\_9\_2: 66.751282

T\_10\_0: 195.353564

T\_10\_1: 170.000000

T\_10\_2: 249.356684

T\_11\_0: 165.578679

T\_11\_1: 159.411570

T\_11\_2: 159.285406

T\_12\_0: 365.177792

T\_12\_1: 310.253969

T\_12\_2: 304.274032

T\_13\_0: 358.000000

T\_13\_1: 358.000000

T\_13\_2: 325.000000

T\_14\_0: 111.000000

T\_14\_1: 152.000000

T\_14\_2: 120.941145

T\_15\_0: 421.000000

T\_15\_1: 410.441760

T\_15\_2: 395.000000

T\_16\_0: 386.000000

T\_16\_1: 401.000000

T\_16\_2: 386.000000

T\_17\_0: 86.000000

T\_17\_1: 114.000000

T\_17\_2: 86.000000

T\_18\_0: 426.000000

T\_18\_1: 426.000000

T\_18\_2: 409.000000

T\_19\_0: 470.000000

T\_19\_1: 470.000000

T\_19\_2: 470.000000

T\_20\_0: 198.825469

T\_20\_1: 175.000000

T\_20\_2: 175.000000

T\_21\_0: 439.939472

T\_21\_1: 444.964080

T\_21\_2: 453.000000

T\_22\_0: 147.000000

T\_22\_1: 147.000000

T\_22\_2: 147.000000

T\_23\_0: 471.000000

T\_23\_1: 471.000000

T\_23\_2: 499.000000

T\_24\_0: 321.000000

T\_24\_1: 321.000000

T\_24\_2: 346.000000

T\_25\_0: 285.643513

T\_25\_1: 258.000000

T\_25\_2: 258.000000

T\_26\_0: 329.000000

T\_26\_1: 329.000000

T\_26\_2: 331.033714

T\_27\_0: 209.000000

T\_27\_1: 209.000000

T\_27\_2: 235.710248

T\_28\_0: 436.694954

T\_28\_1: 460.000000

T\_28\_2: 438.155055

T\_29\_0: 343.062936

T\_29\_1: 305.000000

T\_29\_2: 305.000000

T\_30\_0: 458.000000

T\_30\_1: 432.000000

T\_30\_2: 432.000000

T\_31\_0: 202.000000

T\_31\_1: 231.043203

T\_31\_2: 202.000000

T\_32\_0: 252.000000

T\_32\_1: 252.000000

T\_32\_2: 225.000000

T\_33\_0: 123.000000

T\_33\_1: 123.000000

T\_33\_2: 104.374722

T\_34\_0: 260.000000

T\_34\_1: 260.000000

T\_34\_2: 260.075171

T\_35\_0: 215.000000

T\_35\_1: 215.000000

T\_35\_2: 208.748461

T\_36\_0: 381.000000

T\_36\_1: 397.000000

T\_36\_2: 381.000000

T\_37\_0: 443.118252

T\_37\_1: 416.828044

T\_37\_2: 346.717450

T\_38\_0: 201.000000

T\_38\_1: 219.836347

T\_38\_2: 192.725311

T\_39\_0: 485.000000

T\_39\_1: 465.785849

T\_39\_2: 414.684677

T\_40\_0: 403.553272

T\_40\_1: 476.000000

T\_40\_2: 476.000000

T\_41\_0: 104.420925

T\_41\_1: 176.000000

T\_41\_2: 133.823895

T\_42\_0: 499.000000

T\_42\_1: 516.000000

T\_42\_2: 499.000000

T\_43\_0: 492.616142

T\_43\_1: 492.616142

T\_43\_2: 530.050374

T\_44\_0: 288.825469

T\_44\_1: 241.961374

T\_44\_2: 192.712776

T\_45\_0: 507.298486

T\_45\_1: 506.000000

T\_45\_2: 506.000000

T\_46\_0: 165.566541

T\_46\_1: 179.793017

T\_46\_2: 175.634354

T\_47\_0: 561.000000

T\_47\_1: 485.236807

T\_47\_2: 513.236807

T\_48\_0: 411.000000

T\_48\_1: 339.119752

T\_48\_2: 411.000000

T\_49\_0: 544.505001

T\_49\_1: 544.505001

T\_49\_2: 544.505001

0 0-2-5-1-25-26-29-13-16-40-18-37-42-49

1 0-20-8-7-31-44-32-12-24-48-6-36-15-30-21-39-45-49

2 0-9-17-33-14-41-22-11-46-38-35-3-27-10-34-4-28-19-23-47-43-49