

Min

OBJECTIV:

1 cost - 1 sed - 1 hab

Subject to:

Obj\_Cost: 1549.34225x\_0\_0 + 1549.34225x\_0\_1 + 1549.34225x\_0\_2 + 1549.34225x\_0\_3 + 1549.34225x\_0\_4 + 1549.34225x\_0\_5 + 1549.34225x\_0\_6 + 1549.34225x\_0\_7 + 1549.34225x\_0\_8

+ 561.24337x\_1\_0 + 561.24337x\_1\_1 + 561.24337x\_1\_2 + 561.24337x\_1\_3 + 561.24337x\_1\_4 + 561.24337x\_1\_5 + 561.24337x\_1\_6 + 561.24337x\_1\_7 + 561.24337x\_1\_8

+ 61171.88173x\_2\_0 + 61171.88173x\_2\_1 + 61171.88173x\_2\_2 + 61171.88173x\_2\_3 + 61171.88173x\_2\_4 + 61171.88173x\_2\_5 + 61171.88173x\_2\_6 + 61171.88173x\_2\_7 + 61171.88173x\_2\_8 - hab = 0

clus1: x\_5987\_0 + x\_5987\_1 + x\_5987\_2 + x\_5987\_3 + x\_5987\_4 + x\_5987\_5 + x\_5987\_6 + x\_5987\_7 + x\_5987\_8 - y1>=0

clus2: x\_1118\_0 + x\_1118\_1 + x\_1118\_2 + x\_1118\_3 + x\_1118\_4 + x\_1118\_5 + x\_1118\_6 + x\_1118\_7 + x\_1118\_8

+ x\_1119\_0 + x\_1119\_1 + x\_1119\_2 + x\_1119\_3 + x\_1119\_4 + x\_1119\_5 + x\_1119\_6 + x\_1119\_7 + x\_1119\_8

+ x\_1123\_0 + x\_1123\_1 + x\_1123\_2 + x\_1123\_3 + x\_1123\_4 + x\_1123\_5 + x\_1123\_6 + x\_1123\_7 + x\_1123\_8 - y2>=0

clus3: x\_564\_0 + x\_564\_1 + x\_564\_2 + x\_564\_3 + x\_564\_4 + x\_564\_5 + x\_564\_6 + x\_564\_7 + x\_564\_8 - y3>=0

cluster1\_5987: y1 - x\_5987\_0 - x\_5987\_1 - x\_5987\_2 - x\_5987\_3 - x\_5987\_4 - x\_5987\_5 - x\_5987\_6 - x\_5987\_7 - x\_5987\_8 >= 0

cluster2\_1118: y2 - x\_1118\_0 - x\_1118\_1 - x\_1118\_2 - x\_1118\_3 - x\_1118\_4 - x\_1118\_5 - x\_1118\_6 - x\_1118\_7 - x\_1118\_8 >= 0

cluster2\_1119: y2 - x\_1119\_0 - x\_1119\_1 - x\_1119\_2 - x\_1119\_3 - x\_1119\_4 - x\_1119\_5 - x\_1119\_6 - x\_1119\_7 - x\_1119\_8 >= 0

cluster2\_1123: y2 - x\_1123\_0 - x\_1123\_1 - x\_1123\_2 - x\_1123\_3 - x\_1123\_4 - x\_1123\_5 - x\_1123\_6 - x\_1123\_7 - x\_1123\_8 >= 0

cluster3\_564: y3 - x\_564\_0 - x\_564\_1 - x\_564\_2 - x\_564\_3 - x\_564\_4 - x\_564\_5 - x\_564\_6 - x\_564\_7 - x\_564\_8 >= 0

cluster4\_4317: y4 - x\_4317\_0 - x\_4317\_1 - x\_4317\_2 - x\_4317\_3 - x\_4317\_4 - x\_4317\_5 - x\_4317\_6 - x\_4317\_7 - x\_4317\_8 >= 0

Scen0: x\_0\_0 + x\_0\_1 + x\_0\_2 + x\_0\_3 + x\_0\_4 + x\_0\_5 + x\_0\_6 + x\_0\_7 + x\_0\_8 <=1

Scen1: x\_1\_0 + x\_1\_1 + x\_1\_2 + x\_1\_3 + x\_1\_4 + x\_1\_5 + x\_1\_6 + x\_1\_7 + x\_1\_8 <=1

Scen2: x\_2\_0 + x\_2\_1 + x\_2\_2 + x\_2\_3 + x\_2\_4 + x\_2\_5 + x\_2\_6 + x\_2\_7 + x\_2\_8 <=1

Scen3: x\_3\_0 + x\_3\_1 + x\_3\_2 + x\_3\_3 + x\_3\_4 + x\_3\_5 + x\_3\_6 + x\_3\_7 + x\_3\_8 <=1

Scen4: x\_4\_0 + x\_4\_1 + x\_4\_2 + x\_4\_3 + x\_4\_4 + x\_4\_5 + x\_4\_6 + x\_4\_7 + x\_4\_8 <=1

Scen5: x\_5\_0 + x\_5\_1 + x\_5\_2 + x\_5\_3 + x\_5\_4 + x\_5\_5 + x\_5\_6 + x\_5\_7 + x\_5\_8 <=1

Scen7720: x\_7720\_0 + x\_7720\_1 + x\_7720\_2 + x\_7720\_3 + x\_7720\_4 + x\_7720\_5 + x\_7720\_6 + x\_7720\_7 + x\_7720\_8 <=1

Scen7721: x\_7721\_0 + x\_7721\_1 + x\_7721\_2 + x\_7721\_3 + x\_7721\_4 + x\_7721\_5 + x\_7721\_6 + x\_7721\_7 + x\_7721\_8 <=1

Bounds

sed > 0

cost > 0

Binary

x\_0\_0 x\_0\_1 x\_0\_2 x\_0\_3 x\_0\_4 x\_0\_5 x\_0\_6 x\_0\_7 x\_0\_8

x\_1\_0 x\_1\_1 x\_1\_2 x\_1\_3 x\_1\_4 x\_1\_5 x\_1\_6 x\_1\_7 x\_1\_8

x\_2\_0 x\_2\_1 x\_2\_2 x\_2\_3 x\_2\_4 x\_2\_5 x\_2\_6 x\_2\_7 x\_2\_8

y1 y2 y3 y4 y5 y6 y7 y8 y9 y10 y11 y12 y13 y14 y15 y16 y17 y18 y19 y20

y21 y22 y23 y24 y25 y26 y27 y28 y29 y30 y31 y32 y33 y34 y35 y36 y37 y38 y39 y40