

example3

$$\min x_1 * x_4 * (x_1 + x_2 + x_3) + x_3$$

Subject to

$$1 \leq x_i \leq 5, \quad i=1:4$$

$$x_1 * x_2 * x_3 * x_4 - 25 \geq 0$$

$$x_1^2 + x_2^2 + x_3^2 + x_4^2 - 40 = 0$$

```
alignl stack{min ~ x_1*x_4*(x_1+x_2+x_3)+x_3 #  
"Subject to"#  
1<=x_i<=5,~~~ i = 1:4#  
x_1*x_2*x_3*x_4-25 >= 0#  
x_1^2+x_2^2+x_3^2+x_4^2 - 40 = 0}
```