```
(0,0) profit=0 weight=0 maxprofit=0 bound=115.0
(1,1) profit=40 weight=2 maxprofit=40 bound=115.0
(2,1) profit=70 weight=7 maxprofit=70 bound=115.0
(3,1) profit=120 weight=17 maxprofit=70              BACKTRACK (2,1)
(3,2) profit=70 weight=7 maxprofit=70 bound=80.0
(4,1) profit=80 weight=12 maxprofit=80 bound=80.0    BACKTRACK (3,2)
(4,2) profit=70 weight=7 maxprofit=80 bound=70.0     BACKTRACK (1,1)
(2,2) profit=40 weight=2 maxprofit=80 bound=98.0
(3,3) profit=90 weight=12 maxprofit=90 bound=98.0
(4,3) profit=100 weight=17 maxprofit=90              BACKTRACK (3,3)
(4,4) profit=90 weight=12 maxprofit=90 bound=90.0    BACKTRACK (2,2)
(3,4) profit=40 weight=2 maxprofit=90 bound=50.0     BACKTRACK (0,0)
(1,2) profit=0 weight=0 maxprofit=90 bound=82.0      BACKTRACK (0,0)
maxprofit=90
1 3
num nodes examined=13
```