```
So luong he truc toa do: 6
n =
    6
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)0
C =
 Columns 1 through 10
    0 0 0 1 0 1 0 1
 Column 11
   0
Dich chuyen theo truc x : 0
dx =
    0
Dich chuyen theo truc y : 0
dy =
   0
Dich chuyen theo truc z: 11
dz =
11
T =
[ 1, 0, 0, 0]
[ 0, 1, 0, 0]
[ 0, 0, 1, 11]
[ 0, 0, 0, 1]
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)1
C =
 Columns 1 through 10
```

```
0 1 0 1 0 1 0 1
 Column 11
  0
Quay quanh tuc nao x/y/z: z
Q =
Gia tri quay quanh truc: t1
t =
t1
T =
[\cos(t1), -\sin(t1), 0, 0]
[\sin(t1), \cos(t1), 0, 0]
  0,
         0, 1, 11]
          0, 0, 1]
   Ο,
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)0
C =
 Columns 1 through 10
   0 1 0 1 0 1 0 1
 Column 11
  0
Dich chuyen theo truc x : 0
dx =
0
Dich chuyen theo truc y : 14
dy =
```

```
14
Dich chuyen theo truc z : 12
dz =
12
T =
[\cos(t1), -\sin(t1), 0, -14*\sin(t1)]
[\sin(t1), \cos(t1), 0, 14*\cos(t1)]
                 0, 1,
                          11 + 12]
Γ
       Ο,
                  0, 0,
        Ο,
                                   1]
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)1
C =
  Columns 1 through 10
     0 1 0 1 0 1 0 1 0 1
 Column 11
     0
Quay quanh tuc nao x/y/z: z
Q =
Z
Gia tri quay quanh truc: t2
t =
t2
T =
[\cos(t1) \cdot \cos(t2) - \sin(t1) \cdot \sin(t2), - \cos(t1) \cdot \sin(t2) - \cos(t2) \cdot \sin(t1), 0, -14 \cdot \sin(t2)]
[\cos(t1)*\sin(t2) + \cos(t2)*\sin(t1), \cos(t1)*\cos(t2) - \sin(t1)*\sin(t2), 0, 14*\cos(t2)]
(t1)]
                                                                          0, 1, 11 ¥
                                   0,
[
12]
```

```
Ο,
                                                                         0, 0¥
[
1]
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)0
C =
 Columns 1 through 10
     0 1 0 1 0 1 0 1
 Column 11
     0
Dich chuyen theo truc x : 0
dx =
     0
Dich chuyen theo truc y : 15
dy =
15
Dich chuyen theo truc z: 13-16-17
dz =
13 - 16 - 17
T =
[\cos(t1) \cdot \cos(t2) - \sin(t1) \cdot \sin(t2), - \cos(t1) \cdot \sin(t2) - \cos(t2) \cdot \sin(t1), 0, - 15
(\cos(t1)*\sin(t2) + \cos(t2)*\sin(t1)) - 14*\sin(t1)]
[\cos(t1)*\sin(t2) + \cos(t2)*\sin(t1), \cos(t1)*\cos(t2) - \sin(t1)*\sin(t2), 0, 15
(\cos(t1)*\cos(t2) - \sin(t1)*\sin(t2)) + 14*\cos(t1)]
                                                                         0, 1¥
[
                                  0,
11 + 12 + 13 - 16 - 17]
                                                                         0, 0¥
[
                                   0,
1]
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)1
C =
```

```
Columns 1 through 10
     0 1 0 1 0 1 0 1 0
  Column 11
     0
Quay quanh tuc nao x/y/z: z
Q =
Z
Gia tri quay quanh truc: t3
t =
t3
T =
[\cos(t3)*(\cos(t1)*\cos(t2) - \sin(t1)*\sin(t2)) - \sin(t3)*(\cos(t1)*\sin(t2) + \cos(t2)
*sin(t1)), - cos(t3)*(cos(t1)*sin(t2) + cos(t2)*sin(t1)) - sin(t3)*(cos(t1)*cos(t2) \checkmark
\sin(t1) \cdot \sin(t2), 0, - 15*(\cos(t1) \cdot \sin(t2) + \cos(t2) \cdot \sin(t1)) - 14*sin(t1)]
[\cos(t3)*(\cos(t1)*\sin(t2) + \cos(t2)*\sin(t1)) + \sin(t3)*(\cos(t1)*\cos(t2) - \sin(t1)
*sin(t2)), cos(t3) *(cos(t1) *cos(t2) - sin(t1) *sin(t2)) - sin(t3) *(cos(t1) *sin(t2) 

✔
cos(t2)*sin(t1)), 0, 15*(cos(t1)*cos(t2) - sin(t1)*sin(t2)) + 14*cos(t1)]
[ K
0, 4
0, 1,
                                      11 + 12 + 13 - 16 - 17]
[ 🗹
0, K
0, 0,
                                                            1]
ans =
[\cos(t1 + t2 + t3), -\sin(t1 + t2 + t3), 0, -15*\sin(t1 + t2) - 14*\sin(t1)]
[\sin(t1 + t2 + t3), \cos(t1 + t2 + t3), 0, 15*\cos(t1 + t2) + 14*\cos(t1)]
                                       0, 1,
                                                     11 + 12 + 13 - 16 - 17]
[
                  Ο,
[
                  0,
                                       0, 0,
                                                                            1]
>>
```