```
So luong he truc toa do: 5
n =
    5
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)0
C =
    0 1 0 1 0 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 =
    0 1 0 1 0 1 0 0
Quay quanh tuc nao x/y/z: z
Q =
Z
```

```
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, 0, 1]
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)0
C =
    0 1 0 1 0 0
Dich chuyen theo truc x : 12
dx =
12
Dich chuyen theo truc y : 0
dy =
    0
Dich chuyen theo truc z: -13
dz =
-13
T =
[\cos(t1), -\sin(t1), 0, 12*\cos(t1)]
[\sin(t1), \cos(t1), 0, 12*\sin(t1)]
      Ο,
             0, 1, 11 - 13]
               0, 0,
      Ο,
                          1]
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)1
```

```
C =
     0 1 0 1 0 1 0 0
Quay quanh tuc nao x/y/z: z
Q =
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, 12 \cdot \cos(t2)]
(t1)]
[\cos(t1)*\sin(t2) + \cos(t2)*\sin(t1), \cos(t1)*\cos(t2) - \sin(t1)*\sin(t2), 0, 12*siff
(t1)]
                                                                        0, 1, 11 ¥
                                  0,
Γ
13]
                                                                       0, 0¥
                                  0,
Γ
1]
He truc so Chuyen vi cua he truc, 0/1 (0:Tinh tien, 1:Quay)0
C =
     0 1 0 1 0 1 0 0
Dich chuyen theo truc x : 14
dx =
14
Dich chuyen theo truc y : 0
dy =
     0
Dich chuyen theo truc z : 15
dz =
```

15

>>

```
T =
[\cos(t1) \cdot \cos(t2) - \sin(t1) \cdot \sin(t2), - \cos(t1) \cdot \sin(t2) - \cos(t2) \cdot \sin(t1), 0, 14 \cdot (\cos t2)]
(t1)*\cos(t2) - \sin(t1)*\sin(t2)) + 12*\cos(t1)]
[\cos(t1)*\sin(t2) + \cos(t2)*\sin(t1), \cos(t1)*\cos(t2) - \sin(t1)*\sin(t2), 0, 14*(\cos t t)]
(t1)*\sin(t2) + \cos(t2)*\sin(t1)) + 12*\sin(t1)]
                                                                                  0, 1¥
[
                                       Ο,
11 - 13 + 15]
[
                                       0,
                                                                                  0, 0¥
1]
ans =
[\cos(t1 + t2), -\sin(t1 + t2), 0, 14*\cos(t1 + t2) + 12*\cos(t1)]
[\sin(t1 + t2), \cos(t1 + t2), 0, 14*\sin(t1 + t2) + 12*\sin(t1)]
                              0, 1,
                                                        11 - 13 + 15]
             Ο,
                                0, 0,
[
              Ο,
                                                                      1]
```