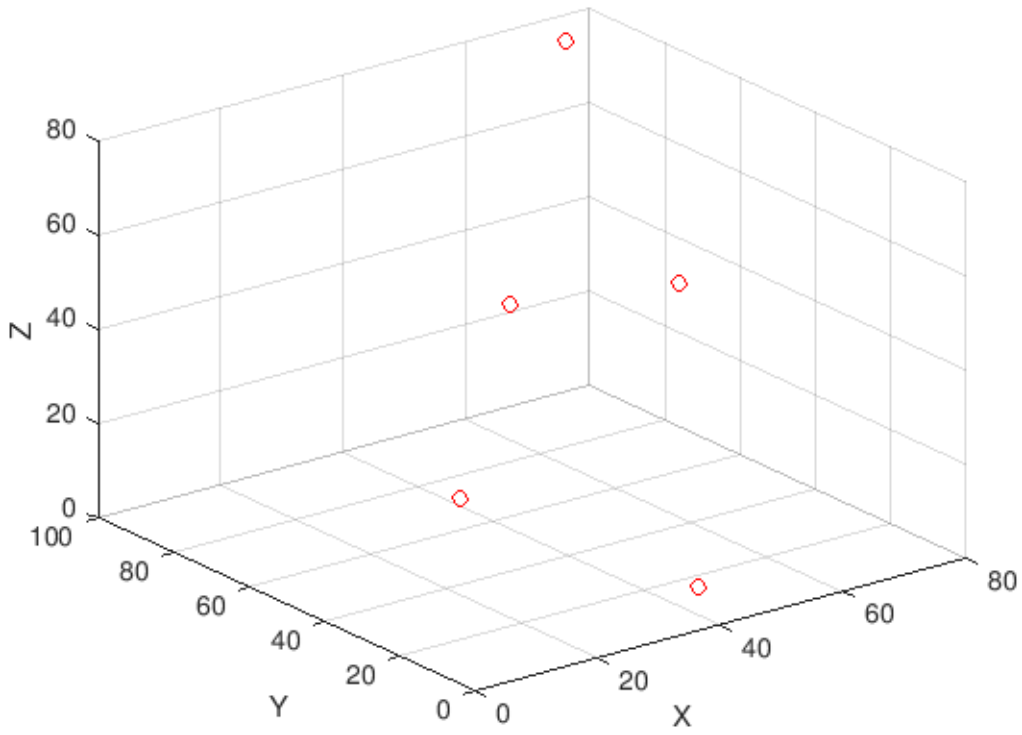
```
P= [70 90 80]
Q= [40 6 6]
R= [10 20 30]
S= [32 43 55]
T= [70 60 40]

X= [25 20 40]

D1=pdist([P;X])
D2=pdist([Q;X])
D3=pdist([R;X])
D4=pdist([S;X])
D5=pdist([T;X])

dist=[D1 D2 D3 D4 D5]

Minimum=min(dist)

A=[70 40 10 32 70]
B=[90 6 20 43 60]
C=[80 6 30 55 40]
scatter3(A,B,C,'r')

xlabel('X')
ylabel('Y')
zlabel('Z')
```

```
P =

    70    90    80


Q =

    40     6     6


R =

    10    20    30


S =

    32    43    55


T =

    70    60    40
```

```
X =

    25    20    40

D1 =

   92.3309

D2 =

   39.7115

D3 =

   18.0278

D4 =

   28.3373

D5 =

   60.2080

dist =

   92.3309   39.7115   18.0278   28.3373   60.2080

Minimum =

   18.0278

A =

    70    40    10    32    70

B =

    90     6    20    43    60

C =

    80     6    30    55    40
```



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