

```
1: ()
2: Prgm
3: ClrIO
4: © Program to find n-dimensional sphere from n+1 points
5: Disp "HYPERSPHERE"
6: Input "Num Dimensions",Nd
7: Disp Nd
8: Nd+1→Pm
9: newMat(Pm,Nd)→A
10: newMat(Nd,Pm)→B
11: For i,1,Pm
12: Disp "Coordinates for Point "&string(i)
13: For j,1,Nd
14: Disp "Point "&string(i)&" Coordinate "&string(j)
15: Input "Value: ",XX
16: XX→A[i,j]
17: EndFor
18: EndFor
19: For i,1,Nd
20: 0→Total
21: For j,1,Nd
22: -2*(A[i,j]-A[i+1,j])→B[i,j]
23: a[i,j]^2-A[i+1,j]^2+Total→Total
24: EndFor
25: -Total→B[i,Pm]
26: EndFor
27: rref(B)→C
28: 0→Total
29: Disp "Answrs..."
30: For i,1,Nd
31: Disp approx(C[i,Pm])
32: (A[1,i]-C[i,Pm])^2+Total→Total
33: EndFor
34: Disp "Constant = "&string(approx(Total))
35: Pause "Done..."
36: Stop
37: EndPrgm
```