

Problem Statement :

Transportation in a metro city is a major issue for the Government of Telangana, and Hyderabad is not an exception to this rule. Keeping this in view, the Hyderabad Metro Rail (HMR) is being developed as one of the largest modern transport systems in the world based upon the PPP model.

There are a lot of systems in HMR, one of them is Ticketing System. A passenger needs a ticket to travel by the metro rail. Build a system which can print the ticket, given both source and destination.

Following are the pricing rules to consider:

Upto the 3 stations journey, fare is ₹ 10.00/- (for all Lines)

After the 3 stations, for every extra station,

₹ 2.50/- for Line I

₹ 2.00/- for Line II

₹ 3.00/- for Line III

There is no extra cost associated with changing lines

Expected Input format:

Enter Source Station Code:

A4

Enter Destination Station Code:

B12

Expected Output format:

Hyderabad Metro Rail

Source: Kukatpally Distance (stations): 18

Destination: Charminar Cost: ₹ 46.50/-

Following are the details of the Lines / Stations:

3 Lines - 66 Stations - 3 Interchange Stations:

Line I - Miyapur to L B Nagar - 27 Stations, 29 KM

Line II - JBS to Falaknuma - 16 Stations, 15 KM

Line III - Nagole to Shilparamam - 23 Stations, 28 KM

Stations – Line I:

Code	Station	Code	Station	Code	Station
A1	Miyapur	A2	JNTU College	A3	KPHB Colony
A4	Kukatpally	A5	Balanagar	A6	Moosapet
A7	Bharat Nagar	A8	Erragadda	A9	ESI Hospital
A10	S R Nagar	X1	Ameerpet	A12	Punjagutta
A13	Irrum Manzil	A14	Khairatabad	A15	Lakdikapul
A16	Assembly	A17	Nampally	A18	Gandhi Bhavan
A19	Osmania Medical College	X2	MG Bus station	A21	Malakpet
A22	New Market	A23	Musarambagh	A24	Dilsukhnagar
A25	Chaitanyapuri	A26	Victoria Memorial	A27	L B Nagar

Stations – Line II:

Code	Station	Code	Station	Code	Station
B1	JBS	X3	Parade Grounds	B3	Secunderabad
B4	Gandhi Hospital	B5	Musheerabad	B6	RTC Cross Roads
B7	Chikkadpally	B8	Narayanguda	B9	Sultan Bazar
X2	M G Bus Station	B11	Salarjung Museum	B12	Charminar
B13	Shalibanda	B14	Shamsher Gunj	B15	Jungametta
B16	Falaknuma				

Stations - Line III:

Code	Station	Code	Station	Code	Station
C1	Nagole	C2	Uppal	C3	Survey of India
C4	NGRI	C5	Habsiguda	C6	Tarnaka
C7	Mettuguda	C8	Secunderabad	X3	Parade Grounds
C10	Paradise	C11	Rasool Pura	C12	Prakash Nagar
C13	Begumpet	X1	Ameerpet	C15	Madhura Nagar
C16	Yusuf Guda	C17	Road No 5 Jubilee Hills	C18	Jubilee Hills Check Post
C19	Pedamma Temple	C20	Madhapur	C21	Durgam Chervu
C22	HITEC City	C23	Shilparamam		

Interchange Stations:

Code	Station	Connecting Lines
X1	Ameerpet Station	Line I & III
X2	M G B S Station	Line I & II
X3	Parade Grounds Station	Line II & III

