

	Akron	Cincinnati	Cleveland	Columbus	Dayton	Toledo
Akron	*					
Cincinnati	238	*				
Cleveland	39	252	*			
Columbus	128	111	142	*		
Dayton	198	55	217	76	*	
Toledo	138	199	119	144	150	*

Use the repetitive nearest neighbor algorithm, beginning at each of the six given Ohio cities. Fill in the names and write the mileage for each segment of each trip. Compute the total mileage for each trip.

Akr.	mi.	Cinci.	mi.	Cle.	mi.	Col.	mi.	Day.	mi.	Tol.	mi.
Akr.		Cinci.		Cle.		Col.		Day.		Tol.	
Tot.		Tot.		Tot.		Tot.		Tot.		Tot.	

List the cities in cheapest trip above in order beginning with Akron:

Akron →            →            →            →            →            → Akron

Now use the cheapest link algorithm. Here is a list of links in order by weight.

From	To	Miles	Makes circuit?	Adds 3rd edge?	Use?
Akron	Cleveland	39			
Dayton	Cincinnati	55			
Dayton	Columbus	76			
Cincinnati	Columbus	111			
Toledo	Cleveland	119			
Akron	Columbus	128			
Akron	Toledo	138			
Columbus	Cleveland	142			
Columbus	Toledo	144			
Dayton	Toledo	150			
Dayton	Akron	198			
Toledo	Cincinnati	199			
Dayton	Cleveland	217			
Akron	Cincinnati	238			
Cincinnati	Cleveland	252			

List the cities on this trip in order starting with Akron. Give the total weight.