Consult the file *"cars.txt"*. The file contains stock information for a national car dealer in Ireland along with column headings. The car dealer currently has 3 locations in Ireland (Dublin, Cork and Limerick).

CARREG	MAKE	MODEL	COLOUR	LOCATIOn	PRICE	OWNERS	MILEAGE
09-L-1258	OPEL	ASTRA	SILVER	LIMERICK	12999	0	35000
01-D-7845	FORD	FOCUS	BLACK	LIMERICK	1500	3	85000
11-D-7425	NISSAN	ALMERA	WHITE	DUBLIN	21000	0	0
06-C-1758	PEUGEOT	306	SILVER	CORK	9999	2	58500
10-CE-63	HYUNDAI	ACCENT	RED	DUBLIN	18000	1	12250
11-D-8956	AUDI	A6	BLACK	DUBLIN	75000	0	0
08-W-1373	FORD	FOCUS	BLACK	CORK	7900	2	45989
04-DL-31	OPEL	CORSA	GREEN	CORK	1900	3	67900
10-LK-123	BMW	X1	SILVER	DUBLIN	28700	1	14223
98-C-6661	FIAT	BRAVO	YELLOW	CORK	750	5	43900
01-LK-98	RENALT	LAGUNA	GREEN	LIMERICK	995	2	159000
00-KK-1211	SEAT	IBIZA	RED	DUBLIN	975	1	110000
11-D-1233	TOYOYA	AVENSIS	GREY	DUBLIN	26999	0	0
11-D-1234	TOYOTA	AVENSIS	BLACK	DUBLIN	26999	0	0
01-D-31	OPEL	CORSA	BLACK	CORK	1900	3	987
07-D-7845	FORD	FOCUS	BLACK	LIMERICK	6500	1	55000

Write a program which will parse the contents of "cars.txt" (your program must contain sufficient code to test for the possibility of an invalid file structure).

Your program must then print to a second file ("projections.txt") each of the locations (Dublin, Cork or Limerick) along with the average price of a car at that location.

Once your program has finished executing, "projections.dat", will look something like the following: (note; *projections.dat* must include appropriate column headings).

Location	AveragePrice
DUBLIN	28239.00
CORK	4489.80
LIMERICK	2573.50

The contents of "projections.dat" is obviously dependent on the contents of "cars.dat" at the time of program execution.