If we type the following in any text editor and save as file named data.txt.

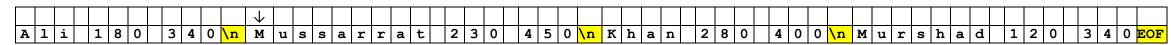
Ali 180 340 Mussarrat 230 450 Khan 280 400 Murshad 120 340

When we open that file in a CPP program using fstream df("data.txt", ios∷in), it is a sequence of character as shown below. The location of get and put flag (↓) is also shown.

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A	1 i	Ĺ	1	L 8	0	3	4	0	\n	l	1 1	u :	s	S	a	r	r	a	t,	2	3	0	4	4 !	5 (0 \	n	K	h	a	n	2	8	0	4	0	0	\n	М	u	r	S	h	a	d	1	2	0	3	4	0	EO	F

As we have use ios:in on opening the file, so we have to read it, not to write into it. If we want to write, nothing got changed, i.e., write gone unsuccessful. If ios:out is used instead, the existing data will be erased, and new content will be written in the file. If ios:in | ios:out is used, as I have mentioned in the lecture to use the appropriate seek when switching the mode of reading/writing in a file open with fstream. The very first file read/write statement sets the mode along with its own task. If we have the following line of code to be executed on the above-mentioned state of the fstream, the change in the stream is described to its next. And variable name line of type string will be:

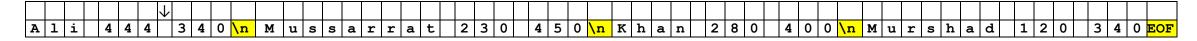
getline(df, line); // result in storing Ali 180 340 in the variable named line



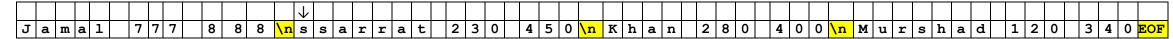
If in this state, we use the following statement to execute

df.seekp(-8, ios::cur); // seek a location to write in the stream and switch the mode to ios::out df << 444;

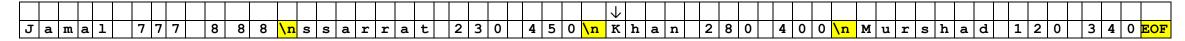
The state of the fstream will be



At this state, if we execute df.seekp(0, ios::beg); and at next line df << "Jamal" << ' ' << 777 << ' ' << 888 << endl; the state of the fstream will be



At this state, if we execute **df.seekg(17, ios::cur)**;



and at next line **getline(df, line, '0')**; the state of the fstream will be, and the content of the line variable will be Khan 28.

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J	a	m	a]	L	7	7	7	8	8	8	\n	s	s	a :	r ı	r a	t	2 3	3 0	4	5 () <mark>\n</mark>	K	h	а	n	2	8	0	4	0	0	\n M	u	r s	h a	a d	1 2	2 0	3	4 (0 <mark>E</mark>	OF