Question 3) Construct a factor variable (without using factor, as.factor, or related functions) that contain the weather forecast for Portland over the next 14 days (i.e., excluding today). (2.5 points)

- There should be 5 levels sun, partial clouds, clouds, rain, snow.
- Start with an integer vector and add the appropriate attributes in.

Portland, OR 10 Day Weather 12:36 pm FDT Print										
DAY		DESCRIPTION	HIGH / LCW	PRECIP	WIND	HUMIDTY				
TODAY APR 7	*	Partly Cloudy	62'/39'	/ 0%	N0 mph	4796				
WED APR B	*	Sunny	72*/44*	/10%	NNE 10 mph	52%				
THU APR 9	*	Sunny	74*/46*	10%	N10 mph	46%				
FRI APR 10	<u>*</u>	Partly Cloudy	61*/44*	/10%	W 7 mph	66%				
SAT APR 11		Partly Cloudy	61"/40"	/ 20%	W 7 mph	56%				
SUN APR 12	*	Mostly Sunny	64*/40′	10%	NE 8 mph	36%				
MON APR 13	*	Partly Cloudy	68'/44'	/ 10%	N6 mph	38%				
APR 14	*	Partly Cloudy	60*/43'	/ 20%	SW 6 mph	52%				
WED APR 15	*	Partly Cloudy	63'/43'	/ 20%	W 6 mph	58%				
THU APR 16	*	Partly Cloudy	63'/44'	/ 20%	ENE 7 mph	54%				
PRI APR 17	*	Partly Cloudy	63'/45'	/ 20%	SSW 7 mph	60%				
SAT APR 18	*	Mostly Cloudy	61'/44"	/ 20%	SW 3 mph	64%				
SUN APR 19	Transfer of	AM Showers	62'/45'	/ 40%	SW 3 mph	62%				
MDN APR 20	*	Mostly Cloudy	62'/45'	/ 20%	SW 7 mph	64%				
TUE ANR 21	9	AM Showers	64*/48'	/ 30%	WSW 8 mph	63%				

forecast <- c(1, 1, 2, 2, 1, 2, 2, 2, 2, 2, 3, 4, 3, 4) weather_levels <- c("sun", "partial clouds", "clouds", "rain", "snow")

forecast_data <- data.frame(
 Day = 1:14,
 Weather = weather_levels[forecast],</pre>

	Day	W	eather	High	LOW	Precip	wina	Humiaity
1	1		sun	62	39	0.0	8	47
2	2		sun	72	44	0.1	10	52
3	3	partial	clouds	74	45	0.0	10	49
4	4	partial	clouds	64	44	0.1	7	68
5	5		sun	61	40	0.2	7	56
6	6	partial	clouds	64	40	0.0	8	39
7	7	partial	clouds	68	44	0.1	6	38
8	8	partial	clouds	60	43	0.2	6	53
9	9	partial	clouds	63	43	0.2	6	58
10	10	partial	clouds	63	44	0.2	7	54
11	11		clouds	63	45	0.2	7	60
12	12		rain	61	44	0.2	8	64
13	13		clouds	62	45	0.4	8	63
14	14		rain	62	45	0.2	7	64