

Histopathology and Sample Data

Chapter 6

Histopathology and Sample data

Breast tissue

Sr.No.	Age Years	Histopathology	Type
1	Not known	Intracanalicular fibroadenoma breast	Benign
2	Not known	Malignant	Cancer
3	Not known	Pericanalicular fibroadenoma breast	Benign
4	85/F	Ductal carcinoma breast grade-III	Cancer
5	50/F	Ductal carcinoma breast	Cancer
6	22/F	Intracanalicular fibroadenoma breast	Benign
7	27/F	Pericanalicular fibroadenoma breast	Benign
8	25/F	Intracanalicular fibroadenoma breast	Benign
9	Not known	Cystosarcoma	Cancer
10	40/F	Ductal carcinoma breast grade-III	Cancer
11	16/F	Pericanalicular fibroadenoma breast	Benign
12	16/F	Pericanalicular fibroadenoma breast	Benign
13	24/F	Intraductal carcinoma breast	Cancer
14	45/F	Ductal carcinoma breast grade-III	Cancer
15	48/F	Ductal carcinoma breast	Cancer
16	65/M	Ductal carcinoma breast grade-II	Cancer
17	Not known	Cystosarcoma	Cancer
18	25/F	Pericanalicular fibroadenoma breast	Benign
19	15/F	Pericanalicular fibroadenoma breast	Benign
20	40/F	Intracanalicular fibroadenoma breast	Benign

Sr.No.	Age Years	Histopathology	Type
21	50/F	Ductal carcinoma breast grade-II	Cancer
22	25/F	Pericanalicular fibroadenoma breast	Benign
23	35/F	Intracanalicular fibroadenoma breast	Benign
24	40/F	Intracanalicular fibroadenoma breast	Benign
25	38/F	Ductal carcinoma breast grade-II	Cancer
26	30/F	Ductal carcinoma breast grade-III	Cancer
27	35/F	Ductal carcinoma breast grade-II	Cancer
28	40/F	Ductal carcinoma breast	Cancer
29	40/F	Ductal carcinoma breast	Cancer
30	30/F		Benign
31	32/F	Intracanalicular fibroadenoma breast	Benign
32	32/F		Benign
33	32/F	Ductal carcinoma breast grade-II	Cancer
34	45/F	Ductal carcinoma breast grade-II	Cancer
35	35/F	Lobular carcinoma	Cancer
36	40/F	Ductal carcinoma breast grade-III	Cancer
37	35/F	Ductal carcinoma breast grade-II	Cancer
38	40/F	Ductal carcinoma breast grade-I	Cancer
39	42/F	Ductal carcinoma breast grade-III	Cancer
40	28/F	Pericanalicular fibroadenoma breast	Benign
41	38/F	Fibroadenoma breast	Benign
42	32/F	Ductal carcinoma breast grade-III	Cancer
43	25/F	Fibroadenoma breast	Benign
44	19/F	Pericanalicular fibroadenoma breast	Benign
45	55/F		Benign
46	18/F	Intracanalicular fibroadenoma breast	Benign
47	25/F		Benign
48	32/F		Benign
49	50/F	Ductal carcinoma breast grade-I	Cancer
50	35/F	Ductal carcinoma breast grade-II	Cancer
51	50/F	Cystosarcoma grade-II	Cancer
52	45/F	Ductal carcinoma breast grade-II	Cancer
53	35/F	Lobular carcinoma	Cancer
54	35/F	Intracanalicular fibroadenoma breast	Benign

Sample data of diseased and non-diseased breast tissue

Wavelength nm	Diseased Intensity Co- $\perp$	Diseased Intensity Cross- $\parallel$	Normal Intensity Co- $\perp$	Normal Intensity Cross- $\parallel$
5.00E+02	8.80E+02	5.20E+02	2.54E+03	1.62E+03
5.01E+02	6.60E+02	4.90E+02	2.53E+03	1.56E+03
5.02E+02	8.00E+02	4.90E+02	2.43E+03	1.62E+03
5.03E+02	5.90E+02	5.00E+02	2.48E+03	1.63E+03
5.04E+02	7.10E+02	4.60E+02	2.53E+03	1.55E+03
5.05E+02	8.60E+02	5.10E+02	2.45E+03	1.58E+03
5.06E+02	9.00E+02	5.70E+02	2.44E+03	1.64E+03
5.07E+02	6.50E+02	5.80E+02	2.57E+03	1.70E+03
5.08E+02	9.50E+02	5.10E+02	2.43E+03	1.67E+03
5.09E+02	9.50E+02	5.60E+02	2.62E+03	1.72E+03
5.10E+02	9.70E+02	7.40E+02	2.67E+03	1.72E+03
5.11E+02	7.30E+02	4.70E+02	2.73E+03	1.78E+03
5.12E+02	9.20E+02	8.20E+02	2.76E+03	1.78E+03
5.13E+02	9.40E+02	6.60E+02	2.82E+03	1.87E+03
5.14E+02	8.90E+02	4.60E+02	2.88E+03	1.90E+03
5.15E+02	9.70E+02	6.90E+02	3.07E+03	2.09E+03
5.16E+02	7.70E+02	6.40E+02	3.06E+03	1.97E+03
5.17E+02	6.70E+02	6.40E+02	3.06E+03	2.06E+03
5.18E+02	1.01E+03	7.20E+02	3.19E+03	2.04E+03
5.19E+02	1.08E+03	6.30E+02	3.88E+03	2.59E+03
5.20E+02	8.60E+02	6.40E+02	3.37E+03	2.32E+03
5.21E+02	9.40E+02	7.50E+02	3.27E+03	2.13E+03
5.22E+02	9.20E+02	7.00E+02	3.33E+03	2.17E+03
5.23E+02	9.50E+02	5.30E+02	3.25E+03	2.13E+03
5.24E+02	9.30E+02	4.50E+02	3.21E+03	2.13E+03
5.25E+02	9.10E+02	6.60E+02	3.24E+03	2.19E+03
5.26E+02	9.20E+02	4.60E+02	3.27E+03	2.19E+03
5.27E+02	8.90E+02	5.70E+02	3.40E+03	2.30E+03
5.28E+02	8.50E+02	5.50E+02	3.30E+03	2.23E+03
5.29E+02	8.90E+02	5.60E+02	4.42E+03	2.96E+03
5.30E+02	7.50E+02	5.00E+02	3.25E+03	2.10E+03

5.31E+02	9.00E+02	7.30E+02	3.22E+03	2.07E+03
5.32E+02	8.40E+02	6.20E+02	3.20E+03	2.04E+03
5.33E+02	7.40E+02	7.70E+02	3.11E+03	2.09E+03
5.34E+02	8.60E+02	6.20E+02	3.04E+03	2.08E+03
5.35E+02	8.30E+02	8.10E+02	2.94E+03	1.98E+03
5.36E+02	9.10E+02	7.00E+02	3.05E+03	1.92E+03
5.37E+02	7.50E+02	6.60E+02	2.95E+03	1.95E+03
5.38E+02	7.50E+02	5.10E+02	2.94E+03	1.88E+03
5.39E+02	8.80E+02	5.20E+02	2.81E+03	1.88E+03
5.40E+02	8.20E+02	6.10E+02	2.81E+03	1.82E+03
5.41E+02	6.00E+02	6.60E+02	2.76E+03	1.76E+03
5.42E+02	6.70E+02	6.30E+02	2.78E+03	1.87E+03
5.43E+02	8.30E+02	5.60E+02	2.77E+03	1.72E+03
5.44E+02	9.20E+02	6.40E+02	2.73E+03	1.73E+03
5.45E+02	7.30E+02	4.90E+02	2.66E+03	1.74E+03
5.46E+02	9.00E+02	4.40E+02	2.66E+03	1.85E+03
5.47E+02	8.40E+02	4.40E+02	2.66E+03	1.71E+03
5.48E+02	9.00E+02	6.20E+02	2.61E+03	1.77E+03
5.49E+02	7.80E+02	5.40E+02	2.54E+03	1.72E+03
5.50E+02	8.20E+02	6.40E+02	2.48E+03	1.71E+03
5.51E+02	6.80E+02	5.10E+02	2.56E+03	1.72E+03
5.52E+02	7.20E+02	4.80E+02	2.65E+03	1.69E+03
5.53E+02	7.30E+02	5.30E+02	2.60E+03	1.75E+03
5.54E+02	8.10E+02	5.60E+02	2.53E+03	1.72E+03
5.55E+02	8.30E+02	5.00E+02	2.55E+03	1.62E+03
5.56E+02	5.80E+02	5.10E+02	2.45E+03	1.71E+03
5.57E+02	6.20E+02	7.30E+02	2.43E+03	1.66E+03
5.58E+02	7.20E+02	3.90E+02	2.45E+03	1.71E+03
5.59E+02	6.30E+02	5.00E+02	2.42E+03	1.65E+03
5.60E+02	7.70E+02	4.80E+02	2.36E+03	1.66E+03
5.61E+02	7.30E+02	7.30E+02	2.38E+03	1.59E+03
5.62E+02	6.80E+02	4.60E+02	2.39E+03	1.61E+03
5.63E+02	6.50E+02	4.90E+02	2.57E+03	1.71E+03
5.64E+02	7.20E+02	4.60E+02	2.38E+03	1.67E+03
5.65E+02	6.30E+02	5.80E+02	2.39E+03	1.55E+03

5.66E+02	6.00E+02	6.50E+02	2.24E+03	1.60E+03
5.67E+02	7.50E+02	5.80E+02	2.31E+03	1.50E+03
5.68E+02	4.80E+02	6.00E+02	2.35E+03	1.55E+03
5.69E+02	7.00E+02	3.80E+02	2.69E+03	1.68E+03
5.70E+02	4.70E+02	5.30E+02	2.73E+03	1.91E+03
5.71E+02	5.60E+02	5.10E+02	2.70E+03	1.73E+03
5.72E+02	4.50E+02	5.20E+02	2.13E+03	1.51E+03
5.73E+02	4.60E+02	4.60E+02	1.98E+03	1.34E+03
5.74E+02	4.20E+02	4.80E+02	2.03E+03	1.47E+03
5.75E+02	6.70E+02	5.00E+02	1.95E+03	1.30E+03
5.76E+02	4.60E+02	4.80E+02	1.82E+03	1.33E+03
5.77E+02	3.70E+02	4.10E+02	1.82E+03	1.32E+03
5.78E+02	4.90E+02	4.40E+02	1.80E+03	1.23E+03
5.79E+02	5.80E+02	4.10E+02	1.79E+03	1.17E+03
5.80E+02	3.50E+02	5.60E+02	1.80E+03	1.21E+03
5.81E+02	6.00E+02	5.10E+02	1.72E+03	1.24E+03
5.82E+02	5.80E+02	4.40E+02	1.66E+03	1.18E+03
5.83E+02	4.70E+02	5.70E+02	1.74E+03	1.12E+03
5.84E+02	4.90E+02	4.60E+02	1.66E+03	1.12E+03
5.85E+02	4.50E+02	4.40E+02	1.63E+03	1.07E+03
5.86E+02	4.90E+02	5.00E+02	1.68E+03	1.12E+03
5.87E+02	5.60E+02	4.50E+02	1.57E+03	1.07E+03
5.88E+02	4.60E+02	4.20E+02	1.60E+03	1.15E+03
5.89E+02	3.10E+02	3.30E+02	1.55E+03	1.07E+03
5.90E+02	4.20E+02	2.90E+02	1.59E+03	1.12E+03
5.91E+02	4.80E+02	3.80E+02	1.56E+03	1.13E+03
5.92E+02	4.20E+02	3.80E+02	1.46E+03	1.08E+03
5.93E+02	4.10E+02	4.10E+02	1.45E+03	1.05E+03
5.94E+02	5.70E+02	3.30E+02	1.41E+03	1.05E+03
5.95E+02	3.60E+02	4.40E+02	1.37E+03	1.02E+03
5.96E+02	3.60E+02	4.50E+02	1.42E+03	1.00E+03
5.97E+02	4.40E+02	2.30E+02	1.43E+03	9.25E+02
5.98E+02	4.90E+02	3.50E+02	1.39E+03	9.71E+02
5.99E+02	2.80E+02	4.20E+02	1.35E+03	9.41E+02
6.00E+02	3.50E+02	3.30E+02	1.32E+03	8.73E+02

6.01E+02	3.30E+02	4.40E+02	1.30E+03	9.07E+02
6.02E+02	3.70E+02	3.70E+02	1.26E+03	8.85E+02
6.03E+02	4.30E+02	3.70E+02	1.24E+03	8.72E+02
6.04E+02	4.20E+02	4.50E+02	1.22E+03	8.69E+02
6.05E+02	4.50E+02	3.40E+02	1.27E+03	8.35E+02
6.06E+02	3.90E+02	3.10E+02	1.12E+03	8.12E+02
6.07E+02	3.30E+02	3.60E+02	1.12E+03	8.33E+02
6.08E+02	4.00E+02	4.00E+02	1.13E+03	7.70E+02
6.09E+02	4.10E+02	3.70E+02	1.08E+03	7.91E+02
6.10E+02	3.30E+02	3.30E+02	1.14E+03	8.11E+02
6.11E+02	3.70E+02	3.50E+02	1.04E+03	7.34E+02
6.12E+02	2.90E+02	2.60E+02	1.02E+03	7.37E+02
6.13E+02	3.50E+02	2.50E+02	1.01E+03	6.84E+02
6.14E+02	3.60E+02	4.30E+02	1.03E+03	7.35E+02
6.15E+02	3.30E+02	2.70E+02	9.89E+02	7.01E+02
6.16E+02	4.00E+02	2.40E+02	9.27E+02	6.90E+02
6.17E+02	2.90E+02	2.50E+02	9.77E+02	6.62E+02
6.18E+02	4.10E+02	3.60E+02	9.33E+02	6.79E+02
6.19E+02	3.80E+02	2.90E+02	9.53E+02	6.24E+02
6.20E+02	3.90E+02	3.50E+02	8.24E+02	6.41E+02
6.21E+02	3.00E+02	2.20E+02	8.98E+02	6.67E+02
6.22E+02	4.30E+02	2.30E+02	8.19E+02	5.81E+02
6.23E+02	4.70E+02	2.60E+02	8.47E+02	5.65E+02
6.24E+02	3.10E+02	3.10E+02	8.21E+02	6.10E+02
6.25E+02	3.20E+02	3.70E+02	7.62E+02	5.70E+02
6.26E+02	3.30E+02	3.40E+02	7.25E+02	5.55E+02
6.27E+02	3.30E+02	3.40E+02	8.01E+02	5.52E+02
6.28E+02	4.10E+02	2.20E+02	7.83E+02	5.52E+02
6.29E+02	4.10E+02	3.00E+02	7.29E+02	5.62E+02
6.30E+02	3.60E+02	3.70E+02	7.23E+02	5.66E+02
6.31E+02	3.10E+02	3.50E+02	7.00E+02	5.42E+02
6.32E+02	3.40E+02	2.10E+02	7.04E+02	5.35E+02
6.33E+02	2.80E+02	2.20E+02	6.80E+02	5.23E+02
6.34E+02	2.50E+02	3.20E+02	6.71E+02	4.65E+02
6.35E+02	3.40E+02	3.10E+02	6.51E+02	4.90E+02

6.36E+02	5.30E+02	3.00E+02	6.35E+02	4.75E+02
6.37E+02	3.20E+02	2.60E+02	6.14E+02	4.34E+02
6.38E+02	2.80E+02	3.30E+02	6.44E+02	5.03E+02
6.39E+02	2.40E+02	2.80E+02	6.04E+02	4.71E+02
6.40E+02	2.60E+02	2.00E+02	6.18E+02	4.66E+02
6.41E+02	3.30E+02	1.90E+02	6.01E+02	4.37E+02
6.42E+02	3.70E+02	2.00E+02	5.78E+02	4.57E+02
6.43E+02	2.90E+02	3.10E+02	5.75E+02	4.10E+02
6.44E+02	3.60E+02	1.90E+02	6.16E+02	3.99E+02
6.45E+02	2.70E+02	3.50E+02	5.31E+02	3.89E+02
6.46E+02	3.30E+02	1.80E+02	5.35E+02	4.50E+02
6.47E+02	3.50E+02	3.30E+02	5.28E+02	4.00E+02
6.48E+02	3.00E+02	2.10E+02	5.59E+02	3.90E+02
6.49E+02	2.10E+02	3.10E+02	4.87E+02	3.49E+02
6.50E+02	3.30E+02	2.10E+02	5.04E+02	3.71E+02
6.51E+02	3.00E+02	3.30E+02	5.04E+02	3.56E+02
6.52E+02	2.10E+02	3.30E+02	4.68E+02	3.51E+02
6.53E+02	2.00E+02	2.10E+02	4.82E+02	3.75E+02
6.54E+02	2.50E+02	2.90E+02	4.26E+02	3.26E+02
6.55E+02	2.90E+02	3.20E+02	4.82E+02	3.47E+02
6.56E+02	3.10E+02	2.10E+02	4.93E+02	3.17E+02
6.57E+02	2.60E+02	2.90E+02	4.09E+02	3.17E+02
6.58E+02	2.10E+02	3.10E+02	4.75E+02	3.38E+02
6.59E+02	3.00E+02	4.00E+02	4.31E+02	3.42E+02
6.60E+02	3.50E+02	3.00E+02	4.08E+02	2.86E+02
6.61E+02	2.70E+02	2.00E+02	4.22E+02	2.97E+02
6.62E+02	2.40E+02	2.40E+02	4.02E+02	3.22E+02
6.63E+02	2.70E+02	3.10E+02	3.84E+02	3.20E+02
6.64E+02	3.20E+02	2.00E+02	3.95E+02	3.10E+02
6.65E+02	3.20E+02	3.00E+02	3.75E+02	2.97E+02
6.66E+02	2.50E+02	3.40E+02	4.04E+02	2.93E+02
6.67E+02	2.60E+02	2.60E+02	3.91E+02	2.75E+02
6.68E+02	2.00E+02	2.90E+02	3.90E+02	2.76E+02
6.69E+02	3.20E+02	2.50E+02	3.25E+02	3.02E+02
6.70E+02	2.30E+02	2.80E+02	3.66E+02	2.88E+02

6.71E+02	2.60E+02	1.70E+02	3.31E+02	2.82E+02
6.72E+02	2.70E+02	2.30E+02	3.24E+02	2.84E+02
6.73E+02	2.30E+02	3.20E+02	3.40E+02	2.48E+02
6.74E+02	2.50E+02	2.30E+02	3.64E+02	2.54E+02
6.75E+02	3.40E+02	2.00E+02	3.20E+02	2.42E+02
6.76E+02	2.00E+02	3.60E+02	3.14E+02	2.53E+02
6.77E+02	2.80E+02	2.20E+02	3.12E+02	2.41E+02
6.78E+02	3.30E+02	2.30E+02	3.04E+02	2.41E+02
6.79E+02	3.30E+02	3.40E+02	3.28E+02	2.44E+02
6.80E+02	3.50E+02	2.50E+02	2.76E+02	2.66E+02
6.81E+02	2.40E+02	2.70E+02	3.01E+02	2.23E+02
6.82E+02	2.20E+02	2.90E+02	2.84E+02	2.06E+02
6.83E+02	2.60E+02	2.50E+02	2.52E+02	2.17E+02
6.84E+02	1.50E+02	3.00E+02	3.09E+02	2.02E+02
6.85E+02	2.40E+02	2.60E+02	3.00E+02	2.12E+02
6.86E+02	3.10E+02	2.40E+02	2.62E+02	2.13E+02
6.87E+02	2.70E+02	1.70E+02	2.67E+02	1.94E+02
6.88E+02	3.70E+02	2.50E+02	2.72E+02	2.21E+02
6.89E+02	3.80E+02	3.80E+02	2.59E+02	2.12E+02
6.90E+02	2.80E+02	1.50E+02	2.63E+02	2.28E+02
6.91E+02	2.70E+02	2.70E+02	2.45E+02	1.97E+02
6.92E+02	2.40E+02	2.60E+02	2.74E+02	2.15E+02
6.93E+02	2.40E+02	2.00E+02	2.52E+02	1.89E+02
6.94E+02	3.00E+02	1.20E+02	2.72E+02	2.09E+02
6.95E+02	3.30E+02	2.90E+02	2.25E+02	1.95E+02
6.96E+02	1.90E+02	2.10E+02	2.44E+02	1.97E+02
6.97E+02	1.70E+02	3.00E+02	2.24E+02	1.89E+02
6.98E+02	2.70E+02	1.70E+02	2.64E+02	1.94E+02
6.99E+02	2.40E+02	2.70E+02	2.49E+02	2.02E+02
7.00E+02	2.50E+02	2.30E+02	2.39E+02	2.05E+02

Sample data of diseased and non-diseased cervical tissue

Wavelength nm	Diseased Intensity Co- $\perp$	Diseased Intensity Cross- $\parallel$	Normal Intensity Co- $\perp$	Normal Intensity Cross- $\parallel$
380	149340	97300	194610	126020
381	151380	101540	201350	131330
382	158980	105880	205500	139950
383	160340	110490	212250	144640
384	165290	114580	216350	152330
385	170660	119110	224490	158340
386	175050	126340	228260	167840
387	175360	131670	234500	171150
388	183810	136340	241270	181080
389	184290	139320	244500	187190
390	193910	144890	252150	190600
391	196610	151750	256000	199770
392	201290	154050	265480	203020
393	207890	156350	268840	208270
394	212890	161110	273130	212810
395	214140	163380	279340	211720
396	220160	164100	284710	219920
397	219890	167720	287940	217810
398	223980	169910	292090	221980
399	232570	170960	293990	225500
400	234030	174900	299200	227310
401	235090	174930	300560	229070
402	237800	177500	306620	233820
403	239630	180200	307860	236340
404	242810	180930	312970	241290
405	244950	183280	317260	243660
406	250150	187500	321530	247200
407	249780	191110	325130	250960
408	257990	194440	330390	255520
409	259020	196740	335140	257210
410	262450	197380	339640	266560

411	266130	204450	341790	270190
412	268260	208280	344810	276220
413	272210	213300	350830	280950
414	274490	217320	353970	284460
415	282490	221530	358740	292900
416	288840	232180	367200	301030
417	292920	239070	372020	311180
418	301270	242560	376770	316800
419	303330	252970	381610	329670
420	304330	259700	389190	333120
421	312340	267270	396330	341730
422	319030	276140	398820	352710
423	327140	284330	408300	362410
424	335720	294990	418100	371790
425	335540	303740	417980	381750
426	342620	314080	421890	391720
427	348300	323380	429050	407080
428	360970	336190	438110	413140
429	360670	347470	447270	429370
430	367440	352830	456500	442570
431	371400	365800	466700	457250
432	377790	377130	470610	466850
433	385130	384210	479000	478460
434	394310	394570	483520	502250
435	401100	408090	489780	510010
436	405520	419770	496740	525570
437	407570	430160	507960	542090
438	412110	441880	515360	553560
439	414480	448160	522730	569390
440	423770	460400	532600	581270
441	425390	469530	535750	602330
442	428190	477550	542010	610850
443	430240	485320	546490	619340
444	434350	494260	555830	627980
445	432410	499810	554530	647950

446	435110	503470	559910	658260
447	432780	509960	555640	667360
448	427970	510160	560610	671400
449	432100	518880	563030	678420
450	433270	517810	560530	689550
451	424320	520460	558590	693750
452	425090	522820	559260	701420
453	418590	520720	558920	699040
454	417920	520010	554980	701080
455	413450	522060	548860	707010
456	411410	518780	548990	706380
457	408170	510060	543460	701830
458	403700	511230	536150	693950
459	399290	504620	534130	687890
460	394980	499440	525320	679400
461	380280	494190	519250	676870
462	384830	487380	514440	673590
463	375700	487950	508910	671220
464	371680	481810	504560	662720
465	361110	476050	492500	659150
466	358930	472840	486200	659600
467	350800	473470	475000	652040
468	343950	465160	469420	645900
469	339180	466590	460760	640480
470	332790	459430	449380	637240
471	325030	452590	444510	631450
472	317710	447830	426630	628600
473	311830	448760	423530	617310
474	305920	439780	416810	614010
475	295550	438120	405490	612450
476	289810	436010	396390	605870
477	285500	428770	387360	594720
478	275690	425540	377340	589750
479	270550	416980	365910	579430
480	263540	407880	359250	580760

481	257340	405520	351050	566670
482	252380	401180	345260	561060
483	241420	395590	333730	548280
484	237000	389260	324690	549560
485	230470	382000	318320	538590
486	228570	380980	310990	532460
487	221990	372240	301460	521390
488	214640	370180	293210	518480
489	210660	361960	290000	509610
490	207960	357740	283440	505700
491	198750	350360	275160	495840
492	193370	344800	270520	488550
493	188160	343570	260690	476650
494	183350	336060	255730	473300
495	180350	329730	250870	468840
496	175490	325610	244480	455070
497	172760	318500	238590	448780
498	167250	314200	232020	440110
499	161590	308770	222550	435170
500	159610	299090	219250	430260
501	156310	295160	213780	419420
502	149290	290020	208530	412200
503	146830	285370	201990	403010
504	142980	283440	197370	398630
505	137730	273210	192680	389370
506	134290	268100	186510	377460
507	132440	261280	179860	372160
508	127650	257820	174830	362240
509	125350	249670	170240	351200
510	119630	245390	162880	344160
511	117120	238150	161340	336960
512	113010	234260	156810	329850
513	108870	227520	150710	321310
514	107230	220700	145620	314570
515	103930	218330	141840	306390

516	100350	212140	138420	297110
517	97110	209280	133200	293420
518	92740	198590	129380	284470
519	90310	194310	125980	278790
520	88120	191030	120490	267520
521	83890	183600	117120	261320
522	79510	177520	114430	256800
523	79080	176990	111810	250780
524	77630	167900	105060	237140
525	72150	164690	101630	233690
526	70280	158490	97860	225480
527	68450	156530	95020	221570
528	65080	150080	92350	214280
529	64460	145330	87940	207360
530	62970	143960	84600	200370
531	61820	137930	83590	196460
532	58510	134460	78280	186260
533	55680	131480	76320	184640
534	52950	126310	74680	175490
535	51690	120450	71100	169900
536	50740	117400	70330	166930
537	49350	115510	64850	161840
538	45670	111630	64420	158730
539	45240	108350	61630	152470
540	43780	105700	60240	146680
541	42100	102770	58540	142390
542	40920	100810	56190	140520
543	40760	97240	55180	134360
544	38860	96360	52730	131760
545	37190	92800	52030	128180
546	35910	91330	50050	127590
547	35240	90670	49410	122630
548	35120	86050	47780	119550
549	33120	83330	45450	115870
550	32400	81150	44400	114640

551	31560	78480	43460	108920
552	30420	78300	41860	108210
553	30760	77620	41370	105750
554	30060	74960	39970	104150
555	27910	73290	39110	101660
556	27510	71580	37750	98880
557	25800	69630	36380	98840
558	26460	68370	35450	94960
559	25440	64710	35560	90720
560	25350	63780	33580	89300
561	24000	61290	31960	86290
562	22870	61670	31440	83720
563	22860	59670	30490	81540
564	21520	55910	29520	78740
565	21120	55790	29160	78890
566	19870	54460	27740	75810
567	19680	51720	26460	74380
568	18950	50690	25870	70350
569	19420	49810	25450	69820
570	17740	48890	24280	68350
571	17150	47610	23590	66500
572	17630	46060	23020	62440
573	15360	45030	23090	62780
574	15790	42940	22190	61740
575	15500	42750	21320	59460
576	14570	40220	20800	56140
577	14260	38790	20150	56190
578	13430	38570	19200	53440
579	14070	38620	18850	54350
580	13200	37890	18930	52180
581	13110	36300	17210	51490
582	13180	36040	17280	51140
583	12860	34730	17040	49420
584	11720	33760	16920	48630
585	11650	33300	16040	48030

586	11380	32800	16080	45520
587	10950	32840	16130	44840
588	11050	31210	15470	43930
589	10490	31240	14740	43090
590	10760	30810	14370	43310
591	10770	28060	13980	41640
592	9820	29090	13600	41120
593	9460	29060	13710	38920
594	9580	27330	12730	38400
595	8430	26410	13120	37440
596	9060	25400	11960	37600
597	8380	25390	11780	35820
598	8510	25050	12160	35590
599	8080	22980	11420	33740
600	7520	23290	10550	33240
601	7490	22440	10780	32620
602	7710	21860	10300	31190
603	6960	21400	9750	29970
604	7330	20710	10000	30580
605	6570	20580	9640	29290
606	6540	19780	9100	28680
607	6450	19280	9730	27300
608	6490	19080	9250	28000
609	6290	19300	8760	26720
610	6050	18500	8400	26550
611	5980	17300	7550	25850
612	5770	17480	7930	24140
613	5620	16910	7880	24060
614	5660	15810	7340	23370
615	5280	16070	7570	22800
616	5210	16120	7070	22020
617	4930	14910	7510	21820
618	4910	14040	6710	20990
619	4810	13800	7110	20880
620	4460	13710	6750	19790

621	4870	13330	6410	19110
622	4390	12820	5940	19210
623	4520	12050	5840	18230
624	4200	12030	5400	17400
625	4120	12140	5520	17260
626	3500	11560	5120	16470
627	3560	10810	5210	16920
628	3680	11080	4820	16500
629	3440	10400	4600	15050
630	3390	10900	4740	14430
631	3000	9800	7450	13970
632	2920	9930	4781	13870
633	2970	9430	4171	13490
634	3300	9190	4757	13280
635	3110	8360	4310	12130
636	2960	8800	3590	12020
637	2880	8150	3880	11810
638	2970	7400	3890	10910
639	2620	7270	3370	10590
640	2510	7410	3500	10490
641	2460	7270	3330	9900
642	2220	6240	3350	9550
643	2450	6510	3430	9300
644	2100	6240	2680	9170
645	2310	6420	2760	8880
646	2460	6240	2810	8640
647	2430	6060	2740	8380
648	2370	6810	2980	9140
649	2600	7330	2820	9030
650	2920	8280	3610	10000