DAA lab Internal Set 1

1) A 20 away of size NXN will have one column say ith column with all Is and ith now will have all 0's except ill element. Remaining elements will be randomly filled with 0s and 2s. You are pallowed to search for A(i,i) element in an array. Determine the position 'i' with least number of searches. Write the best case and worst case of your algorithm.

Example;

 $\begin{bmatrix}
 0 & 1 & 0 \\
 0 & 1 & 1 \\
 0 & 0 & 1 \\
 1 & 0
\end{bmatrix}$ n = 4

j=3

Their a set of 'n' houses, and their cost to be painted in red, green and blue colours, determine the least cost way of painting all the least cost way of painting all the houses such that no two adjacent houses are in the same colour.

sey, n = 5

N-9.	1	2	3	9- 4.	5
red	4	8	563 i	5	[6]
green	7	3	4	6	[2]
blue /	2	5	4	3	5
_				,	V

30) Given a few denominations of currency notes, determine the so min. no: of rotes required to draw the given amount.

In: denominations; 50, 10, 5, 500, 100, 200 denominations; 50, 10, 5, 500, 100, 200

As 500 - One note i use greedy 100 - one note method.