Simple Chessboard

Write a program that prints a simple chessboard.

Input format:

The first line contains the number of inputs T.

The lines after that contain a different value for size of the chessboard

Output format:

Print a chessboard of dimensions size * size.

Print W for white spaces and B for black spaces.

Sample Input:

2

3

5

Sample Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Program:

```
#include <stdio.h>

int main()
{
   int T, size;
   scanf("%d", &T);   // number of test cases

   while (T--)
   {
      scanf("%d", &size);   // size of the chessboard

      for (int i = 0; i < size; i++)        // loop for rows
      {
         for (int j = 0; j < size; j++)    // loop for columns
         {
            // If sum of row and column index is even → W, else → B
            if ((i + j) % 2 == 0)
               printf("W");
            else
               printf("B");
         }
       printf("\n"); // move to next line after each row
      }
   }
   return 0;
}
```

Print Our Own Chessboard

Let's print a chessboard!

Write a program that takes input:

The first line contains T, the number of test cases

Each test case contains an integer N and also the starting character of the chessboard

Output Format

Print the chessboard as per the given examples

Sample Input:

2

2 W

3 B

Sample Output:

WB

BW

BWB

WBW

BWB

Program:

```
#include <stdio.h>

int main()

{

   int T, N;

   char start;

   scanf("%d", &T);
```

```
    while (T--)
    {
        scanf("%d %c", &N, &start);
        char first = start;
        char second = (start == 'W') ? 'B' : 'W';

        for (int i = 0; i < N; i++)
        {
            for (int j = 0; j < N; j++)
            {
                if ((i + j) % 2 == 0)
                    printf("%c", first);
                else
                    printf("%c", second);
            }
            printf("\n");
        }
    }
    return 0;
}
```

(i,j)	i+j	(i+j)%2	Printed
0,0	0	0	W
0,1	1	1	B
0,2	2	0	W
1,0	1	1	B
1,1	2	0	W
1,2	3	1	B
2,0	2	0	W
2,1	3	1	B
2,2	4	0	W