

```

#include<stdio.h>
#include<math.h>
int board[20],count;
int main()
{
    int n,i,j;
    void queen(int row,int n);

    printf(" - N Queens Problem Using Backtracking -");
    printf("\n\nEnter number of Queens:");
    scanf("%d",&n);
    queen(1,n);
    return 0;
}

```

```

void print(int n)
{
    int i,j;
    printf("\n\nSolution %d:\n\n",++count);

    for(i=1;i<=n;++i)
        printf("\t%d",i);

    for(i=1;i<=n;++i)
    {
        printf("\n\n%d",i);
        for(j=1;j<=n;++j)
        {

```

```

        if(board[i]==j)
            printf("\tQ");
        else
            printf("\t-");
    }
}

```

```

int place(int row,int column)
{
    int i;
    for(i=1;i<=row-1;++i)
    {

        if(board[i]==column)
            return 0;
        else
            if(abs(board[i]-column)==abs(i-row))
                return 0;
    }

    return 1;
}

```

```

void queen(int row,int n)
{
    int column;
    for(column=1;column<=n;++column)

```

```

{
    if(place(row,column))
    {
        board[row]=column;
        if(row==n)
            print(n);
        else
            queen(row+1,n);
    }
}
}
}

```

/*

stud@stud-OptiPlex-380:~\$ gcc ass4b.c

stud@stud-OptiPlex-380:~\$./a.out

- N Queens Problem Using Backtracking -

Enter number of Queens:4

Solution 1:

	1	2	3	4
1	-	Q	-	-
2	-	-	-	Q

3	Q	-	-	-
---	---	---	---	---

4	-	-	Q	-
---	---	---	---	---

Solution 2:

	1	2	3	4
--	---	---	---	---

1	-	-	Q	-
---	---	---	---	---

2	Q	-	-	-
---	---	---	---	---

3	-	-	-	Q
---	---	---	---	---

4	-	Q	-	-
---	---	---	---	---

```
stud@stud-OptiPlex-380:~$ gcc ass4.c
```

```
stud@stud-OptiPlex-380:~$ ./a.out
```

- N Queens Problem Using Backtracking -

Enter number of Queens:8

Solution 1:

	1	2	3	4	5	6	7	8
--	---	---	---	---	---	---	---	---

1	Q	-	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---

2	-	-	-	-	Q	-	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	-	-	-	Q	-	-
5	-	-	Q	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	Q	-	-	-	-

Solution 2:

	1	2	3	4	5	6	7	8
1	Q	-	-	-	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	Q	-	-	-	-	-
5	-	-	-	-	-	-	Q	-

6	-	-	-	Q	-	-	-	-
---	---	---	---	---	---	---	---	---

7	-	Q	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---

8	-	-	-	-	Q	-	-	-
---	---	---	---	---	---	---	---	---

Solution 3:

	1	2	3	4	5	6	7	8
1	Q	-	-	-	-	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	-	-	Q	-	-	-	-
4	-	-	-	-	-	Q	-	-
5	-	-	-	-	-	-	-	Q
6	-	Q	-	-	-	-	-	-
7	-	-	-	-	Q	-	-	-
8	-	-	Q	-	-	-	-	-

Solution 4:

	1	2	3	4	5	6	7	8
1	Q	-	-	-	-	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	-	-	-	Q	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	Q	-	-	-	-	-	-
6	-	-	-	Q	-	-	-	-
7	-	-	-	-	-	Q	-	-
8	-	-	Q	-	-	-	-	-

Solution 5:

	1	2	3	4	5	6	7	8
1	-	Q	-	-	-	-	-	-
2	-	-	-	Q	-	-	-	-
3	-	-	-	-	-	Q	-	-

4	-	-	-	-	-	-	-	Q
5	-	-	Q	-	-	-	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	-	-	-	-	Q	-
8	-	-	-	-	Q	-	-	-

Solution 6:

	1	2	3	4	5	6	7	8
1	-	Q	-	-	-	-	-	-
2	-	-	-	-	Q	-	-	-
3	-	-	-	-	-	-	Q	-
4	Q	-	-	-	-	-	-	-
5	-	-	Q	-	-	-	-	-
6	-	-	-	-	-	-	-	Q
7	-	-	-	-	-	Q	-	-

8	-	-	-	Q	-	-	-	-
---	---	---	---	---	---	---	---	---

Solution 7:

	1	2	3	4	5	6	7	8
1	-	Q	-	-	-	-	-	-
2	-	-	-	-	Q	-	-	-
3	-	-	-	-	-	-	Q	-
4	-	-	-	Q	-	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	Q
7	-	-	-	-	-	Q	-	-
8	-	-	Q	-	-	-	-	-

Solution 8:

	1	2	3	4	5	6	7	8
1	-	Q	-	-	-	-	-	-

2	-	-	-	-	-	Q	-	-
3	Q	-	-	-	-	-	-	-
4	-	-	-	-	-	-	Q	-
5	-	-	-	Q	-	-	-	-
6	-	-	-	-	-	-	-	Q
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	Q	-	-	-

Solution 9:

	1	2	3	4	5	6	7	8
1	-	Q	-	-	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	Q	-	-	-	-	-
5	Q	-	-	-	-	-	-	-

6	-	-	-	Q	-	-	-	-
---	---	---	---	---	---	---	---	---

7	-	-	-	-	-	-	Q	-
---	---	---	---	---	---	---	---	---

8	-	-	-	-	Q	-	-	-
---	---	---	---	---	---	---	---	---

Solution 10:

	1	2	3	4	5	6	7	8
1	-	Q	-	-	-	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	-	Q	-	-	-	-	-
4	-	-	-	-	-	Q	-	-
5	-	-	-	-	-	-	-	Q
6	-	-	-	-	Q	-	-	-
7	Q	-	-	-	-	-	-	-
8	-	-	-	Q	-	-	-	-

Solution 11:

	1	2	3	4	5	6	7	8
1	-	Q	-	-	-	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	-	-	-	Q	-	-	-
4	-	-	-	-	-	-	-	Q
5	Q	-	-	-	-	-	-	-
6	-	-	-	Q	-	-	-	-
7	-	-	-	-	-	Q	-	-
8	-	-	Q	-	-	-	-	-

Solution 12:

	1	2	3	4	5	6	7	8
1	-	Q	-	-	-	-	-	-
2	-	-	-	-	-	-	-	Q
3	-	-	-	-	-	Q	-	-

4	Q	-	-	-	-	-	-	-
5	-	-	Q	-	-	-	-	-
6	-	-	-	-	Q	-	-	-
7	-	-	-	-	-	-	Q	-
8	-	-	-	Q	-	-	-	-

Solution 13:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	Q	-	-	-	-	-	-	-
3	-	-	-	-	-	-	Q	-
4	-	-	-	-	Q	-	-	-
5	-	-	-	-	-	-	-	Q
6	-	Q	-	-	-	-	-	-
7	-	-	-	Q	-	-	-	-

8	-	-	-	-	-	Q	-	-
---	---	---	---	---	---	---	---	---

Solution 14:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	Q	-	-	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	-	-	-	-	Q
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	-	-	Q	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 15:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-

2	-	-	-	-	Q	-	-	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	-	-	-	-	Q	-	-
6	-	-	-	Q	-	-	-	-
7	-	-	-	-	-	-	Q	-
8	Q	-	-	-	-	-	-	-

Solution 16:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	Q	-	-	-
3	-	-	-	-	-	-	Q	-
4	Q	-	-	-	-	-	-	-
5	-	-	-	Q	-	-	-	-

6	-	Q	-	-	-	-	-	-
7	-	-	-	-	-	-	-	Q
8	-	-	-	-	-	Q	-	-

Solution 17:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	Q	-	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	-	Q	-	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 18:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	-	Q	-	-	-
5	-	-	-	-	-	-	-	Q
6	Q	-	-	-	-	-	-	-
7	-	-	-	-	-	-	Q	-
8	-	-	-	Q	-	-	-	-

Solution 19:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	Q	-	-	-	-	-	-

4	-	-	-	-	-	-	Q	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	Q	-	-	-	-
7	-	-	-	-	-	-	-	Q
8	-	-	-	-	Q	-	-	-

Solution 20:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	-	-	-	Q	-
5	-	-	-	-	Q	-	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	Q

8	-	-	-	Q	-	-	-	-
---	---	---	---	---	---	---	---	---

Solution 21:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	-	-	Q	-	-	-	-
4	Q	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	Q
6	-	-	-	-	Q	-	-	-
7	-	-	-	-	-	-	Q	-
8	-	Q	-	-	-	-	-	-

Solution 22:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-

2	-	-	-	-	-	Q	-	-
3	-	-	-	Q	-	-	-	-
4	-	Q	-	-	-	-	-	-
5	-	-	-	-	-	-	-	Q
6	-	-	-	-	Q	-	-	-
7	-	-	-	-	-	-	Q	-
8	Q	-	-	-	-	-	-	-

Solution 23:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	-	-	-	-	-	-	Q
4	Q	-	-	-	-	-	-	-
5	-	-	-	Q	-	-	-	-

6	-	-	-	-	-	-	Q	-
---	---	---	---	---	---	---	---	---

7	-	-	-	-	Q	-	-	-
---	---	---	---	---	---	---	---	---

8	-	Q	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---

Solution 24:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	-	-	-	-	-	-	Q
4	Q	-	-	-	-	-	-	-
5	-	-	-	-	Q	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	Q	-	-	-	-

Solution 25:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	-	-	-	-	-	-	Q
4	-	Q	-	-	-	-	-	-
5	-	-	-	Q	-	-	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	-	-	-	-	Q	-
8	-	-	-	-	Q	-	-	-

Solution 26:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	Q	-	-	-	-	-	-

4	-	-	-	-	-	-	-	Q
5	-	-	-	-	Q	-	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	-	Q	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 27:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	-	-	-	-	Q	-	-
6	-	-	-	Q	-	-	-	-
7	Q	-	-	-	-	-	-	-

8	-	-	-	-	Q	-	-	-
---	---	---	---	---	---	---	---	---

Solution 28:

	1	2	3	4	5	6	7	8
1	-	-	Q	-	-	-	-	-
2	-	-	-	-	-	-	-	Q
3	-	-	-	Q	-	-	-	-
4	-	-	-	-	-	-	Q	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	Q	-	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	-	Q	-	-	-

Solution 29:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-

2	Q	-	-	-	-	-	-	-
3	-	-	-	-	Q	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	Q	-	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 30:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	Q	-	-	-	-	-	-	-
3	-	-	-	-	Q	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	-	-	-	-	Q	-	-

6	-	-	Q	-	-	-	-	-
---	---	---	---	---	---	---	---	---

7	-	-	-	-	-	-	Q	-
---	---	---	---	---	---	---	---	---

8	-	Q	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---

Solution 31:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	Q	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	-	-	-	-	Q	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	-	-	Q	-

Solution 32:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	-	Q	-
4	-	-	Q	-	-	-	-	-
5	-	-	-	-	-	Q	-	-
6	-	-	-	-	-	-	-	Q
7	Q	-	-	-	-	-	-	-
8	-	-	-	-	Q	-	-	-

Solution 33:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	-	Q	-

4	-	-	Q	-	-	-	-	-
5	-	-	-	-	-	Q	-	-
6	-	-	-	-	-	-	-	Q
7	-	-	-	-	Q	-	-	-
8	Q	-	-	-	-	-	-	-

Solution 34:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	-	Q	-
4	-	-	-	-	Q	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	Q
7	-	-	-	-	-	Q	-	-

8	-	-	Q	-	-	-	-	-
---	---	---	---	---	---	---	---	---

Solution 35:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	-	-	Q	-	-	-
5	-	-	-	-	-	-	Q	-
6	Q	-	-	-	-	-	-	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 36:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-

2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	-	-	-	Q	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	Q	-	-	-	-	-
7	-	-	-	-	Q	-	-	-
8	-	-	-	-	-	-	Q	-

Solution 37:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	Q	-	-	-	-	-	-	-
4	-	-	-	-	Q	-	-	-
5	-	Q	-	-	-	-	-	-

6	-	-	-	-	-	-	-	Q
---	---	---	---	---	---	---	---	---

7	-	-	Q	-	-	-	-	-
---	---	---	---	---	---	---	---	---

8	-	-	-	-	-	-	Q	-
---	---	---	---	---	---	---	---	---

Solution 38:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	-	-	-	-	-	-	Q
4	-	Q	-	-	-	-	-	-
5	-	-	-	-	-	-	Q	-
6	Q	-	-	-	-	-	-	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	Q	-	-	-

Solution 39:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	-	-	-	-	Q	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	Q	-	-	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	-	-	-	Q	-	-	-
8	-	Q	-	-	-	-	-	-

Solution 40:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	-	-	-	-	-	Q	-
3	Q	-	-	-	-	-	-	-

4	-	-	-	-	-	-	-	Q
5	-	-	-	-	Q	-	-	-
6	-	Q	-	-	-	-	-	-
7	-	-	-	-	-	Q	-	-
8	-	-	Q	-	-	-	-	-

Solution 41:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	-	Q	-	-	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	Q	-	-	-	-	-	-
6	-	-	-	-	Q	-	-	-
7	Q	-	-	-	-	-	-	-

8	-	-	-	-	-	Q	-	-
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Solution 42:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	-	-	-	Q	-	-	-
4	-	Q	-	-	-	-	-	-
5	-	-	-	-	-	Q	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	-	-	-	Q

Solution 43:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-

2	-	-	-	-	-	-	Q	-
3	-	-	-	-	Q	-	-	-
4	-	-	Q	-	-	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	Q	-	-
7	-	-	-	-	-	-	-	Q
8	-	Q	-	-	-	-	-	-

Solution 44:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	-	-	-	-	-	-	Q
3	Q	-	-	-	-	-	-	-
4	-	-	Q	-	-	-	-	-
5	-	-	-	-	-	Q	-	-

6	-	Q	-	-	-	-	-	-
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7	-	-	-	-	-	-	Q	-
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8	-	-	-	-	Q	-	-	-
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Solution 45:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	-	-	-	-	-	-	Q
3	Q	-	-	-	-	-	-	-
4	-	-	-	-	Q	-	-	-
5	-	-	-	-	-	-	Q	-
6	-	Q	-	-	-	-	-	-
7	-	-	-	-	-	Q	-	-
8	-	-	Q	-	-	-	-	-

Solution 46:

	1	2	3	4	5	6	7	8
1	-	-	-	Q	-	-	-	-
2	-	-	-	-	-	-	-	Q
3	-	-	-	-	Q	-	-	-
4	-	-	Q	-	-	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 47:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	Q	-	-	-	-	-	-	-
3	-	-	-	Q	-	-	-	-

4	-	-	-	-	-	Q	-	-
5	-	-	-	-	-	-	-	Q
6	-	Q	-	-	-	-	-	-
7	-	-	-	-	-	-	Q	-
8	-	-	Q	-	-	-	-	-

Solution 48:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	Q	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	-	Q	-	-	-	-
5	-	Q	-	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	-	Q	-	-	-	-	-

8	-	-	-	-	-	Q	-	-
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Solution 49:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	Q	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	-	-	-	Q	-	-
5	-	-	Q	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	Q	-	-	-	-

Solution 50:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-

2	-	Q	-	-	-	-	-	-
3	-	-	-	Q	-	-	-	-
4	-	-	-	-	-	Q	-	-
5	-	-	-	-	-	-	-	Q
6	-	-	Q	-	-	-	-	-
7	Q	-	-	-	-	-	-	-
8	-	-	-	-	-	-	Q	-

Solution 51:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	Q	-	-	-	-
4	-	-	-	-	-	-	Q	-
5	-	-	Q	-	-	-	-	-

6	-	-	-	-	-	-	-	Q
7	-	-	-	-	-	Q	-	-
8	Q	-	-	-	-	-	-	-

Solution 52:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	Q	-	-
4	Q	-	-	-	-	-	-	-
5	-	-	-	-	-	-	Q	-
6	-	-	-	Q	-	-	-	-
7	-	-	-	-	-	-	-	Q
8	-	-	Q	-	-	-	-	-

Solution 53:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	-	-	Q
4	Q	-	-	-	-	-	-	-
5	-	-	-	Q	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 54:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	-	Q	-	-	-	-	-
3	Q	-	-	-	-	-	-	-

4	-	-	-	-	-	Q	-	-
5	-	-	-	-	-	-	-	Q
6	-	Q	-	-	-	-	-	-
7	-	-	-	Q	-	-	-	-
8	-	-	-	-	-	-	Q	-

Solution 55:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	-	Q	-	-	-	-	-
3	Q	-	-	-	-	-	-	-
4	-	-	-	-	-	-	Q	-
5	-	Q	-	-	-	-	-	-
6	-	-	-	-	-	-	-	Q
7	-	-	-	-	-	Q	-	-

8	-	-	-	Q	-	-	-	-
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Solution 56:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	-	Q	-	-	-	-	-
3	-	-	-	-	-	-	-	Q
4	-	-	-	Q	-	-	-	-
5	-	-	-	-	-	-	Q	-
6	Q	-	-	-	-	-	-	-
7	-	-	-	-	-	Q	-	-
8	-	Q	-	-	-	-	-	-

Solution 57:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-

2	-	-	-	-	-	-	Q	-
3	Q	-	-	-	-	-	-	-
4	-	-	Q	-	-	-	-	-
5	-	-	-	-	-	-	-	Q
6	-	-	-	-	-	Q	-	-
7	-	-	-	Q	-	-	-	-
8	-	Q	-	-	-	-	-	-

Solution 58:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	-	-	-	-	-	Q	-
3	Q	-	-	-	-	-	-	-
4	-	-	-	Q	-	-	-	-
5	-	Q	-	-	-	-	-	-

6	-	-	-	-	-	-	-	Q
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7	-	-	-	-	-	Q	-	-
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8	-	-	Q	-	-	-	-	-
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Solution 59:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	Q	-	-	-	-
5	-	-	-	-	-	-	-	Q
6	Q	-	-	-	-	-	-	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 60:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	-	-	Q	-	-
5	-	-	Q	-	-	-	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	-	Q	-	-	-	-
8	-	-	-	-	-	-	-	Q

Solution 61:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	Q	-	-	-	-	-	-

4	-	-	-	-	-	Q	-	-
5	-	-	Q	-	-	-	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	Q
8	-	-	-	Q	-	-	-	-

Solution 62:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	-	-	-	-	-	Q	-
3	-	-	-	Q	-	-	-	-
4	Q	-	-	-	-	-	-	-
5	-	-	Q	-	-	-	-	-
6	-	-	-	-	-	-	-	Q
7	-	-	-	-	-	Q	-	-

8	-	Q	-	-	-	-	-	-
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Solution 63:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-
2	-	-	-	-	-	-	-	Q
3	-	-	-	Q	-	-	-	-
4	Q	-	-	-	-	-	-	-
5	-	-	Q	-	-	-	-	-
6	-	-	-	-	-	Q	-	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	-	-	-	Q	-

Solution 64:

	1	2	3	4	5	6	7	8
1	-	-	-	-	Q	-	-	-

2	-	-	-	-	-	-	-	Q
3	-	-	-	Q	-	-	-	-
4	Q	-	-	-	-	-	-	-
5	-	-	-	-	-	-	Q	-
6	-	Q	-	-	-	-	-	-
7	-	-	-	-	-	Q	-	-
8	-	-	Q	-	-	-	-	-

Solution 65:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	Q	-	-	-	-	-	-	-
3	-	-	-	-	Q	-	-	-
4	-	Q	-	-	-	-	-	-
5	-	-	-	-	-	-	-	Q

6	-	-	Q	-	-	-	-	-
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7	-	-	-	-	-	-	Q	-
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8	-	-	-	Q	-	-	-	-
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Solution 66:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	-	Q	-
4	Q	-	-	-	-	-	-	-
5	-	-	Q	-	-	-	-	-
6	-	-	-	-	Q	-	-	-
7	-	-	-	-	-	-	-	Q
8	-	-	-	Q	-	-	-	-

Solution 67:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	-	Q	-
4	Q	-	-	-	-	-	-	-
5	-	-	-	Q	-	-	-	-
6	-	-	-	-	-	-	-	Q
7	-	-	-	-	Q	-	-	-
8	-	-	Q	-	-	-	-	-

Solution 68:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	Q	-	-	-	-	-
3	Q	-	-	-	-	-	-	-

4	-	-	-	-	-	-	Q	-
5	-	-	-	-	Q	-	-	-
6	-	-	-	-	-	-	-	Q
7	-	Q	-	-	-	-	-	-
8	-	-	-	Q	-	-	-	-

Solution 69:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	Q	-	-	-	-	-
3	Q	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	-	-	Q	-	-	-	-
6	-	Q	-	-	-	-	-	-
7	-	-	-	-	-	-	Q	-

8	-	-	-	-	Q	-	-	-
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Solution 70:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	Q	-	-	-	-	-
3	Q	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	-	-	-	Q	-	-	-
6	-	Q	-	-	-	-	-	-
7	-	-	-	Q	-	-	-	-
8	-	-	-	-	-	-	Q	-

Solution 71:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-

2	-	-	Q	-	-	-	-	-
3	-	-	-	-	Q	-	-	-
4	-	-	-	-	-	-	Q	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	Q	-	-	-	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	-	-	-	-	Q

Solution 72:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	Q	-	-	-	-	-
3	-	-	-	-	Q	-	-	-
4	-	-	-	-	-	-	-	Q
5	Q	-	-	-	-	-	-	-

6	-	-	-	Q	-	-	-	-
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7	-	Q	-	-	-	-	-	-
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8	-	-	-	-	-	-	Q	-
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Solution 73:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	Q	-	-	-	-	-
3	-	-	-	-	-	-	Q	-
4	-	Q	-	-	-	-	-	-
5	-	-	-	Q	-	-	-	-
6	-	-	-	-	-	-	-	Q
7	Q	-	-	-	-	-	-	-
8	-	-	-	-	Q	-	-	-

Solution 74:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	Q	-	-	-	-	-
3	-	-	-	-	-	-	Q	-
4	-	Q	-	-	-	-	-	-
5	-	-	-	-	-	-	-	Q
6	-	-	-	-	Q	-	-	-
7	Q	-	-	-	-	-	-	-
8	-	-	-	Q	-	-	-	-

Solution 75:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	Q	-	-	-	-	-
3	-	-	-	-	-	-	Q	-

4	-	-	-	Q	-	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	Q
7	-	Q	-	-	-	-	-	-
8	-	-	-	-	Q	-	-	-

Solution 76:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	-	Q	-	-	-	-
3	Q	-	-	-	-	-	-	-
4	-	-	-	-	Q	-	-	-
5	-	-	-	-	-	-	-	Q
6	-	Q	-	-	-	-	-	-
7	-	-	-	-	-	-	Q	-

8	-	-	Q	-	-	-	-	-
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Solution 77:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	-	Q	-	-	-	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	-	-	-	Q	-	-	-
6	-	-	-	-	-	-	Q	-
7	Q	-	-	-	-	-	-	-
8	-	-	Q	-	-	-	-	-

Solution 78:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-

2	-	-	-	Q	-	-	-	-
3	-	-	-	-	-	-	Q	-
4	Q	-	-	-	-	-	-	-
5	-	-	Q	-	-	-	-	-
6	-	-	-	-	Q	-	-	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	-	-	-	-	Q

Solution 79:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	-	Q	-	-	-	-
3	-	-	-	-	-	-	Q	-
4	Q	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	Q

6	-	Q	-	-	-	-	-	-
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7	-	-	-	-	Q	-	-	-
---	---	---	---	---	---	---	---	---

8	-	-	Q	-	-	-	-	-
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Solution 80:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	Q	-	-
2	-	-	-	-	-	-	-	Q
3	-	Q	-	-	-	-	-	-
4	-	-	-	Q	-	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	-	-	-	Q	-	-	-
8	-	-	Q	-	-	-	-	-

Solution 81:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	Q	-
2	Q	-	-	-	-	-	-	-
3	-	-	Q	-	-	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	-	-	-	-	Q	-	-
6	-	-	-	Q	-	-	-	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	-	Q	-	-	-

Solution 82:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	Q	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	Q	-	-	-	-

4	Q	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	Q
6	-	-	-	-	Q	-	-	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 83:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	Q	-
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	-	Q	-	-
4	-	-	Q	-	-	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	Q	-	-	-	-
7	-	-	-	-	-	-	-	Q

8	-	-	-	-	Q	-	-	-
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Solution 84:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	Q	-
2	-	-	Q	-	-	-	-	-
3	Q	-	-	-	-	-	-	-
4	-	-	-	-	-	Q	-	-
5	-	-	-	-	-	-	-	Q
6	-	-	-	-	Q	-	-	-
7	-	Q	-	-	-	-	-	-
8	-	-	-	Q	-	-	-	-

Solution 85:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	Q	-

2	-	-	Q	-	-	-	-	-
3	-	-	-	-	-	-	-	Q
4	-	Q	-	-	-	-	-	-
5	-	-	-	-	Q	-	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	-	-	-	Q	-	-
8	-	-	-	Q	-	-	-	-

Solution 86:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	Q	-
2	-	-	-	Q	-	-	-	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	-	Q	-	-	-
5	-	-	-	-	-	-	-	Q

6	Q	-	-	-	-	-	-	-
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7	-	-	Q	-	-	-	-	-
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8	-	-	-	-	-	Q	-	-
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Solution 87:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	Q	-
2	-	-	-	Q	-	-	-	-
3	-	Q	-	-	-	-	-	-
4	-	-	-	-	-	-	-	Q
5	-	-	-	-	-	Q	-	-
6	Q	-	-	-	-	-	-	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	Q	-	-	-

Solution 88:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	Q	-
2	-	-	-	-	Q	-	-	-
3	-	-	Q	-	-	-	-	-
4	Q	-	-	-	-	-	-	-
5	-	-	-	-	-	Q	-	-
6	-	-	-	-	-	-	-	Q
7	-	Q	-	-	-	-	-	-
8	-	-	-	Q	-	-	-	-

Solution 89:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	-	Q
2	-	Q	-	-	-	-	-	-
3	-	-	-	Q	-	-	-	-

4	Q	-	-	-	-	-	-	-
5	-	-	-	-	-	-	Q	-
6	-	-	-	-	Q	-	-	-
7	-	-	Q	-	-	-	-	-
8	-	-	-	-	-	Q	-	-

Solution 90:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	-	Q
2	-	Q	-	-	-	-	-	-
3	-	-	-	-	Q	-	-	-
4	-	-	Q	-	-	-	-	-
5	Q	-	-	-	-	-	-	-
6	-	-	-	-	-	-	Q	-
7	-	-	-	Q	-	-	-	-

8	-	-	-	-	-	Q	-	-
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Solution 91:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	-	Q
2	-	-	Q	-	-	-	-	-
3	Q	-	-	-	-	-	-	-
4	-	-	-	-	-	Q	-	-
5	-	Q	-	-	-	-	-	-
6	-	-	-	-	Q	-	-	-
7	-	-	-	-	-	-	Q	-
8	-	-	-	Q	-	-	-	-

Solution 92:

	1	2	3	4	5	6	7	8
1	-	-	-	-	-	-	-	Q

2	-	-	-	Q	-	-	-	-
3	Q	-	-	-	-	-	-	-
4	-	-	Q	-	-	-	-	-
5	-	-	-	-	-	Q	-	-
6	-	Q	-	-	-	-	-	-
7	-	-	-	-	-	-	Q	-
8	-	-	-	-	Q	-	-	-