```cpp
#include <iostream>
using namespace std;
long long n,z,a[10001],m,i,b[1001][1001],c,j,k,o=1,S,d[1001][1001];
int main()
{
    cin>>n;
    while (cin>>z)
        a[++m]=z;
    for (i=1;i<=n;i++)
        for (j=1;j<=n;j++)
        b[i][j]=o,o++;
    o=1;
    for (i=1;i<=n;i++)
        for (j=1;j<=n;j++)
        d[i][j]=o,o++;
    for (k=1;k<=m;k++)
    {
        for (i=1;i<=n;i++)
            for (j=1;j<=n;j++)
            {
                if (b[i][j]==a[k] and k%2)
                b[i][j]=-1;
                else
                if (b[i][j]==a[k] and k%2==0)
                b[i][j]=-2;
                else
                if (d[i][j]==a[k] and b[i][j]<0)
                    b[i][j]=d[i][j];
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        if ((b[i][j]==-1 and b[i+1][j]==-1 and b[i-1][j-1]==-1 and b[i-1][j+1]==-1) or (b[i][j]==-2 and
b[i+1][j]==-2 and b[i-1][j-1]==-2 and b[i-1][j+1]==-2))

        {

            S=d[i][j]+d[i+1][j]+d[i-1][j-1]+d[i-1][j+1];

            cout<<S;

            return 0;

        }

        else

        if ((b[i][j]==-1 and b[i-1][j]==-1 and b[i-2][j-1]==-1 and b[i-2][j+1]==-1) or (b[i][j]==-2 and b[i-
1][j]==-2 and b[i-2][j-1]==-2 and b[i-2][j+1]==-2))

        {

            S=d[i][j]+d[i-1][j]+d[i-2][j-1]+d[i-2][j+1];

            cout<<S;

            return 0;

        }

        else

        if ((b[i][j]==-1 and b[i+1][j+1]==-1 and b[i][j+2]==-1 and b[i+2][j+1]==-1) or (b[i][j]==-2 and
b[i+1][j+1]==-2 and b[i][j+2]==-2 and b[i+2][j+1]==-2))

        {

            S=d[i][j]+d[i+1][j+1]+d[i][j+2]+d[i+2][j+1];

            cout<<S;

            return 0;

        }

        else

        if ((b[i][j]==-1 and b[i+1][j-1]==-1 and b[i+2][j-1]==-1 and b[i][j-2]==-1) or (b[i][j]==-2 and
b[i+1][j-1]==-2 and b[i+2][j-1]==-2 and b[i][j-2]==-2))

        {

            S=d[i][j]+d[i+1][j-1]+d[i+2][j-1]+d[i][j-2];

            cout<<S;

            return 0;
```

```cpp
        }
        else
            if ((b[i][j]==-1 and b[i+1][j+1]==-1 and b[i+1][j+2]==-1 and b[i+2][j]==-1) or (b[i][j]==-2 and
b[i+1][j+1]==-2 and b[i+1][j+2]==-2 and b[i+2][j]==-2))
            {
                S=d[i][j]+d[i+1][j+1]+d[i+1][j+2]+d[i+2][j];
                cout<<S;
                return 0;
            }
            else
                if ((b[i][j]==-1 and b[i-2][j]==-1 and b[i-1][j+1]==-1 and b[i-1][j+2]==-1) or (b[i][j]==-2 and b[i-
2][j]==-2 and b[i-1][j+1]==-2 and b[i-1][j+2]==-2))
                {
                    S=d[i][j]+d[i-2][j]+d[i-1][j+1]+d[i-1][j+2];
                    cout<<S;
                    return 0;
                }
                else
                    if ((b[i][j]==-1 and b[i-1][j-1]==-1 and b[i+1][j-1]==-1 and b[i][j+1]==-1) or (b[i][j]==-2 and b[i-1][j-
1]==-2 and b[i+1][j-1]==-2 and b[i][j+1]==-2))
                    {
                        S=d[i][j]+d[i-1][j-1]+d[i+1][j-1]+d[i][j+1];
                        cout<<S;
                        return 0;
                    }
                    else
                        if ((b[i][j]==-1 and b[i-2][j-1]==-1 and b[i+1][j-2]==-1 and b[i][j-1]==-1) or (b[i][j]==-2 and b[i-2][j-
1]==-2 and b[i+1][j-2]==-2 and b[i][j-1]==-2))
                        {
                            S=d[i][j]+d[i-2][j-1]+d[i+1][j-2]+d[i][j-1];
```

```cpp
            cout<<S;

            return 0;

        }

        else

        if ((b[i][j]==-1 and b[i][j+1]==-1 and b[i-1][j+2]==-1 and b[i+1][j+2]==-1) or (b[i][j]==-2 and b[i][j+1]==-2 and b[i-1][j+2]==-2 and b[i+1][j+2]==-2))

        {

            S=d[i][j]+d[i][j+1]+d[i-1][j+2]+d[i+1][j+2];

            cout<<S;

            return 0;

        }

        else

        if ((b[i][j]==-1 and b[i][j-1]==-1 and b[i-1][j+1]==-1 and b[i+1][j+1]==-1) or (b[i][j]==-2 and b[i][j-1]==-2 and b[i-1][j+1]==-2 and b[i+1][j+1]==-2))

        {

            S=d[i][j]+d[i][j-1]+d[i-1][j+1]+d[i+1][j+1];

            cout<<S;

            return 0;

        }

        else

        if ((b[i][j]==-1 and b[i+2][j]==-1 and b[i+1][j-1]==-1 and b[i+1][j-2]==-1) or (b[i][j]==-2 and b[i+2][j]==-2 and b[i+1][j-1]==-2 and b[i+1][j-2]==-2))

        {

            S=d[i][j]+d[i+2][j]+d[i+1][j-1]+d[i+1][j-2];

            cout<<S;

            return 0;

        }

        else

        if ((b[i][j]==-1 and b[i-2][j]==-1 and b[i-1][j-1]==-1 and b[i-1][j-2]==-1) or (b[i][j]==-2 and b[i-2][j]==-2 and b[i-1][j-1]==-2 and b[i-1][j-2]==-2))
```

```cpp
{
    S=d[i][j]+d[i-2][j]+d[i-1][j-1]+d[i-1][j-2];

    cout<<S;

    return 0;

}

else

    if ((b[i][j]==-1 and b[i+1][j]==-1 and b[i+2][j-1]==-1 and b[i+2][j+1]==-1) or (b[i][j]==-2 and
b[i+1][j]==-2 and b[i+2][j-1]==-2 and b[i+2][j+1]==-2))

    {

        S=d[i][j]+d[i+1][j]+d[i+2][j-1]+d[i+2][j+1];

        cout<<S;

        return 0;

    }

    else

        if ((b[i][j]==-1 and b[i-1][j]==-1 and b[i+1][j-1]==-1 and b[i+1][j+1]==-1) or (b[i][j]==-2 and b[i-
1][j]==-2 and b[i+1][j-1]==-2 and b[i+1][j+1]==-2))

        {

            S=d[i][j]+d[i-1][j]+d[i+1][j-1]+d[i+1][j+1];

            cout<<S;

            return 0;

        }

        else

            if ((b[i][j]==-1 and b[i-1][j+1]==-1 and b[i][j+2]==-1 and b[i-2][j+1]==-1) or (b[i][j]==-2 and b[i-
1][j+1]==-2 and b[i][j+2]==-2 and b[i-2][j+1]==-2))

            {

                S=d[i][j]+d[i-1][j+1]+d[i][j+2]+d[i-2][j+1];

                cout<<S;

                return 0;

            }

            else
```

```cpp
        if ((b[i][j]==-1 and b[i-1][j-1]==-1 and b[i][j-2]==-1 and b[i-2][j-1]==-1) or (b[i][j]==-2 and b[i-1][j-
1]==-2 and b[i][j-2]==-2 and b[i-2][j-1]==-2))
            {
                S=d[i][j]+d[i-1][j-1]+d[i][j-2]+d[i-2][j-1];

                cout<<S;

                return 0;

            }
        }
    }
    cout<<S;

    return 0;

}
```