

Add Alternate Elements of 2-Dimensional Array

```
#include <stdio.h>

int main()
{
    int a[3][3];
    for (int i = 0; i < 3; i++)
    {
        for (int j = 0; j < 3; j++)
        {
            scanf("%d", &a[i][j]);
        }
    }
    int sum1=0, sum2=0;
    for (int i = 0; i < 3; i++)
    {
        for (int j = 0; j < 3; j++)
        {
            if((i+j)%2==0)
            {
                sum1 += a[i][j];
            }
            else
                sum2 += a[i][j];
        }
    }
    printf("%d\n%d",sum1,sum2);
    return 0;
}
```

The Wealthy Landlord

```
#include <stdio.h>

int main()
{
    int N;
    int i, x, y;

    long long int x1[100], y1[100], x2[100], y2[100];
    long long int cost[100];
    long long int overlap_area[100];
```

```

static int grid[1001][1001] = {0};

scanf("%d", &N);

for (i = 0; i < N; i++)
overlap_area[i] = 0;

for (i = 0; i < N; i++)
{
    scanf("%lld %lld %lld %lld %lld",
          &x1[i], &y1[i], &x2[i], &y2[i], &cost[i]);
}

for (i = 0; i < N; i++)
{
    for (x = x1[i]; x <= x2[i]; x++)
    {
        for (y = y1[i]; y <= y2[i]; y++)
        {
            grid[x][y] = grid[x][y] + 1;
        }
    }
}

for (i = 0; i < N; i++)
{
    for (x = x1[i]; x <= x2[i]; x++)
    {
        for (y = y1[i]; y <= y2[i]; y++)
        {
            if (grid[x][y] > 1)
            {
                overlap_area[i] = overlap_area[i] + 1;
            }
        }
    }
}

long long int total_refund = 0;

for (i = 0; i < N; i++)
{
    total_refund = total_refund + (overlap_area[i] * cost[i]);
}

printf("%lld", total_refund);

return 0;
}

```

Priority Interview

```
#include <stdio.h>

int main() {
    int N;
    int i, j, temp;
    int gender[100000];
    long long talent[100000];

    long long female[100000];
    long long male[100000];

    int fCount = 0, mCount = 0;

    scanf("%d", &N);

    // Read all inputs
    for (i = 0; i < N; i++) {
        scanf("%d %lld", &gender[i], &talent[i]);

        if (gender[i] == 0) { // Female
            female[fCount] = talent[i];
            fCount++;
        }
        else { // Male
            male[mCount] = talent[i];
            mCount++;
        }
    }

    // Sort females in descending order
    for (i = 0; i < fCount; i++) {
        for (j = i + 1; j < fCount; j++) {
            if (female[i] < female[j]) {
                temp = female[i];
                female[i] = female[j];
                female[j] = temp;
            }
        }
    }

    // Sort males in descending order
    for (i = 0; i < mCount; i++) {
        for (j = i + 1; j < mCount; j++) {
            if (male[i] < male[j]) {
                temp = male[i];
                male[i] = male[j];
                male[j] = temp;
            }
        }
    }
}
```

```
        male[i] = male[j];
        male[j] = temp;
    }
}

// Print females first
for (i = 0; i < fCount; i++) {
    printf("%lld ", female[i]);
}

// Then print males
for (i = 0; i < mCount; i++) {
    printf("%lld ", male[i]);
}

return 0;
}
```