

Олимпиада СПбГУ по информатике 2019/20 учебного года

A	B	C	D	E	F	Sum
100	100	100	40	0	0	340

Task A ()

Task B ()

```

pair<ld, ld> points[6];
for (i32 i = 0; i < 6; i++) {
    cin >> points[i].first >> points[i].second;
}

sort_points(6, points);

for (i32 i = 0; i < 3; i++) {
    cout << fixed << points[2 * i].first << "\u03c0" << fixed << points[2 * i].second << "\n";
}
} else {
    pair<ld, ld> points[3];
    for (i32 i = 0; i < 3; i++) {
        cin >> points[i].first >> points[i].second;
    }

    sort_points(3, points);

    pair<ld, ld> new_points[3];
    for (i32 i = 0; i < 3; i++) {
        new_points[i] = get_point(points[i], points[(i + 1) % 3]);
    }

    for (i32 i = 0; i < 3; i++) {
        cout << fixed << points[i].first << "\u03c0" << fixed << points[i].second << "\n";
        cout << fixed << new_points[i].first << "\u03c0" << fixed << new_points[i].second << "\n";
    }
}

return 0;
}

```

Task C ()

Task D ()

```

}

i32 main() {
    #ifdef DEBUG
    freopen("input.txt", "r", stdin);
    #endif // DEBUG
    ios_base::sync_with_stdio(false);
    cin.tie(0);
    cout.tie(0);

    i32 height, width;
    cin >> height >> width;

    // Tests in statement
    // if (height == 3 && width == 3) {
    //     cout << "1\n";
    //     return 0;
    // } else if (height == 3 && width == 5) {
    //     cout << "4\n";
    //     return 0;
    // }

    // Groups 3, 4
    // if (height > 1) {
    //     cout << "0\n";
    //     return 0;
    // }

    // Now height == 1

    i32 start_row, start_col, finish_row, finish_col;
    cin >> start_row >> start_col >> finish_row >> finish_col;

    start_row--;
    start_col--;
    finish_row--;
    finish_col--;

    pair<i32, i32> deltas[width * height];
    for (i32 i = 0; i < width * height; i++) {
        cin >> deltas[i].first >> deltas[i].second;
    }

    i32 distances[width * height];
    dijkstra2(height, width, deltas, start_row, start_col, distances);

    cout << distances[finish_row * width + finish_col] << "\n";

    return 0;
}

```

Task E ()

Task F ()