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## Іске асыру туралы мәлімдеме

- Сізге тек қана бір файл тапсыру керек (файлдың аты есеп берілгенінде жазылған).

## Conventions

The task statements use the word *array* and the Implementation details sections use the type `int[]`. Depending on the programming language, the graders use the following types in place of `int[]` (and for simplicity, we call all of them arrays):

- `std::vector<int>` in C++,
- `int*` in C,
- `array of longint` in Pascal,
- `int[]` in Java.

The Implementation details sections use the type `int64`. It corresponds to 64-bit signed integer type:

- `long long` in C++/C,
- `int64` in Pascal,
- `long` in Java.

## Limits

Problem	Time Limit	Memory Limit
Detecting Molecules	1 second	2 GB
Roller Coaster Railroad	2 seconds	2 GB
Shortcut	2 seconds	2 GB