



4. When profiling a program containing the code below using the command `perf record -e l1i_miss ./myprog`, the outcome was that the program is significantly slowed in function `process_data`. Explain what is the cause of that slowdown and propose a change that removes it while maintaining the same functionality.

```
static inline void do_a(struct item *i) { ... }
static inline void do_b(struct item *i) { ... }
static inline void do_c(struct item *i) { ... }

void process_data(item_container &big_data)
{
    for (auto item: big_data) {
        do_a(item);
        do_b(item);
        do_c(item);
    }
}
```

*3 points*

Sum of points : 15