

# Practical Programming Exam - Exercise 20 and question 11.3

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## 1 Question 3 from lecture 11

*Suppose you run the command `make main` and it fails with diagnostics*

```
cc      main.c      -o main
main.c:1:19: fatal error: gsl_sf.h: No such file or directory
compilation terminated.
```

*Explain the error and how to correct it.*

The error occurs because the header in `main.c` is wrong. The headerfile is `#include <gsl_sf.h>` when it should be `#include <gsl/gsl_sf.h>`. The reason for having `gsl/...` is because the `gsl` library files are installed in their own directory called `gsl`.

## 2 Exercise 20

## 3 Exercise 32

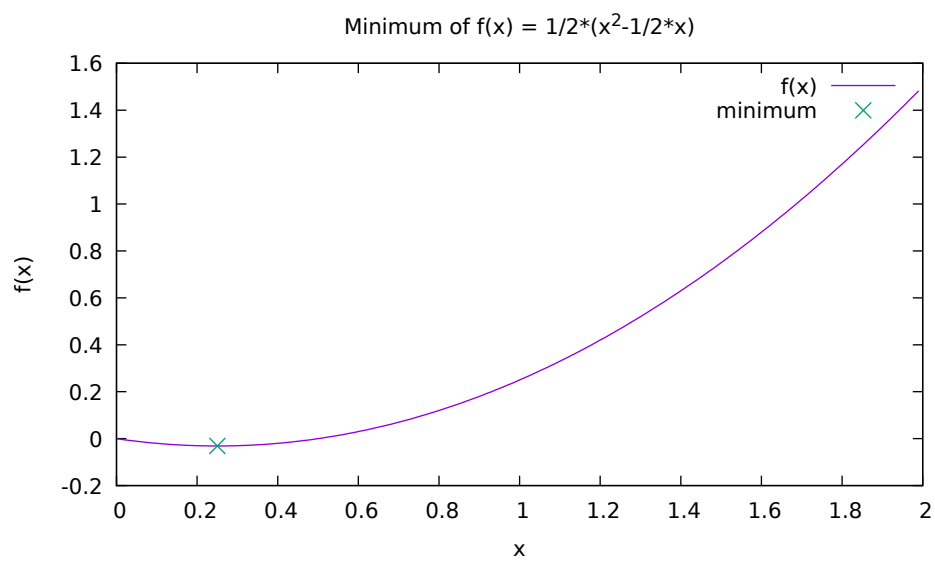


Figure 1: Minimum of the function  $f(x) = \frac{1}{2}(x^2 - \frac{1}{2}x)$