

Lab5 Riddle

Task

For this experiment you need to functionally reproduce a c++ programs.

Program A:

```
int judge(int r0) {
    int i = 2;
    r1 = 1;
    while (i * i <= r0) {
        if (r0 % i == 0) {
            r1 = 0;
            break;
        }
        i++;
    }
    return r1;
}
```

Your program should follow a specific framework:

```
.ORIG x3000
... ; TO BE DONE
HALT
JUDGE ... ; TO BE DONE
... ; TO BE DONE
RET
... ; TO BE DONE
.END
```

$r0$ (an integer, $0 \leq r0 \leq 10000$) is given before program executes (just like lab1), and store the final result in $r1$. (no need to print out with TRAP)

Score

1) Corectness (60%)

If your program passes all the test cases, you can get 60%

2) Report (40%)

Same as lab1

Submission

The completed program should be structured in the directory as shown in the figure,

```
> tree .
├── prime.txt
└── report_pb17000144.pdf

0 directories, 2 files
```

Prof. An

Use git to submit your program.

Prof. Miao & Zhang

Please pack the lab5 folder and zip it to **Name_ID_lab5.zip/tar/rar/...**

After that **upload to the nut cloud** and the link will be placed on the course homepage.

2021.12.31 21:00 (UTC+8 China Standard Time)

Happy New Year