

```
$ cat p1.c
```

```
#include <math.h>

main()
{
    int i,j;
    float sum=0.0;

    for (i=0; i<10000; i++)
    {
        for (j=0;j<10000;j++)
            sum=sum+sqrt(j*1.1);
    }
    return 0;
}
```

```
$cc -o p1 p1.c
```

```
$ time ./p1
```

```
real 0m5.741s
user 0m5.720s
sys 0m0.000s
```

```
$cat p2.c
```

```
#include <stdio.h>
#include <time.h>

main()
{
    int i,j;
    float sum=0.0;

    FILE *fp=fopen("trash.txt","w");

    for (i=0; i<1000; i++)
    {
        for (j=0;j<1000;j++)
            sum=sum+clock()/10000.0;
        fprintf(fp,"%f\n",sum);
    }
    return 0;
}
```

```
$cc -o p2 p2.c
```

```
$ time ./p2
```

```
real 0m2.709s
user 0m0.700s
sys 0m2.000s
```