

Utilizzo del sistema di autovalutazione

<http://fis1718.dijkstra.di.unipi.it/>

Sistema di autovalutazione

 fis1718

 Lezioni

 Classifica

 Registrati

 Entra ▾



Informatica 2017-2018

Corso di Informatica 2017-2018



Source code for this online judge system can be found [here](#). It is based on [Contest Management System](#). Both are released under the [GNU Affero General Public License](#).

Login data

Username

Password

Confirm password

Nome.Cognome
(NO Batman, Spiderman,
Marty.McFly ...)

Personal data

First name

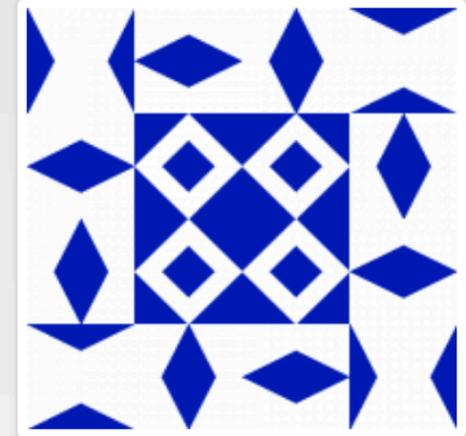
Last name

E-mail address

Confirm e-mail

Sign up

User profile preview



(username)

(Nome) (Cognome)

Lezioni ed Esercizi

 fis1718  Lessons  Ranking  Sign up

▼ Lezione 1-Lab

> Exercise 1: Ciao Mondo!

> Exercise 2: Area rettangolo



> Exercise 3: Elevare al quadrato

Source code for this online judge system can be found [here](#). It is based on [Contest Management System](#). Both are released under the [GNU Affero General Public License](#).

Leggere la Specifica

fis1718

Lessons

Ranking

prova



Area rettangolo

Statement

Attachments 1

Stats

Submissions

Tags 0

1 sec

256 MiB

testo.pdf

1 / 1



Area rettangolo

Esercizio

Scrivere un programma che calcoli l'area di un rettangolo. Il programma legge due interi corrispondenti alla base e all'altezza del rettangolo e stampa l'area.

Esempio

Input

3
7

Output

21

Consegnare la Soluzione

Area rettangolo

Submit a solution

 Reset

 Load file

Language: **C** 

 Submit

1 Write your code here

Compilazione Fallita

Home fis1718 Lessons Ranking prova

Statement Attachments 1 Stats Submissions Tags 0 1 sec 256 MiB

Submit a solution

Reset

Load file

Language: C

Submit

```
1 #include <stdio.h>
2
3 int main(void) {
4     int h,b,A;
5     scanf("%d",&b);
6     scanf("%d",&h);
7
8     A = h + b;
9
10    printf("%d\n",A);
11    return 0;
12 }
13
```

Previous submissions

ID	Time and date	Status	File(s)
144457	1/10/2018, 5:47:58 PM	Compilazione fallita	Scarica

Compilazione Fallita

The screenshot shows an online compiler interface with a modal window titled "Submission details". The modal displays the following information:

Compilation output	
Compilation outcome:	fail
Compilation time:	0.015s
Used memory:	8.7 MiB

Standard output

Standard error

```
Lez1-LabEs2c71.c: In function 'main':  
Lez1-LabEs2c71.c:10:3: error: expected ';' before 'printf'  
    printf("%d\n",A);  
    ^~~~~
```

Close

The background interface shows the source code for a C program:

```
1 #include <stdio.h>  
2  
3 int main(void) {  
4     int h,b,A;  
5     scanf("%d",&b);  
6     scanf("%d",&h);  
7  
8     A = h + b  
9  
10    printf("%d\n",A);  
11    return 0;  
12 }  
13
```

Below the code, there is a table of previous submissions:

ID	Time and date	Status	File(s)
144457	1/10/2018, 5:47:58 PM	Compilazione fallita	Scarica ▾

Compilazione corretta, output sbagliato

Navigation: fis1718 | Lessons | Ranking | prova | A

Statement | Attachments (1) | Stats | Submissions | Tags (0) | 1 sec | 256 MiB

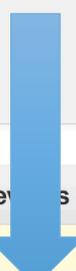
Submit a solution

Reset | Load file | Language: C | Submit

```
1 #include <stdio.h>
2
3 int main(void) {
4     int h,b,A;
5     scanf("%d",&b);
6     scanf("%d",&h);
7
8     A = h + b;
9
10    printf("%d\n",A);
11    return 0;
12 }
13
```

Previous submissions

ID	Time and date	Status	File(s)
144451	1/10/2018, 5:43:05 PM	0 / 100	Scarica ▾



Compilazione corretta, output sbagliato

The image shows a submission details modal window overlaid on a programming competition interface. The modal contains the following information:

Testcase	Result	Details	Time	Memory
000	Not correct	Output isn't correct	0.000s	240 KiB
001	Not correct	Output isn't correct	0.000s	240 KiB
002	Not correct	Output isn't correct	0.000s	244 KiB

Compilation output

Compilation outcome:	ok
Compilation time:	0.072s
Used memory:	11.2 MiB

Standard output

Standard error

Close

Background code:

```
1 #include <stdio.h>
2
3 int main(void) {
4     int h,b,A;
5     scanf("%d",&b);
6     scanf("%d",&h);
7
8     A = h + b;
9
10    printf("%d\n",A);
11    return 0;
12 }
13
```

Previous submissions table:

ID	Time and date	Status	File(s)
144451	1/10/2018, 5:43:05 PM	0 / 100	Scarica ▾

Soluzione corretta

fis1718 Lessons Ranking prova

Statement Attachments 1 Stats Submissions Tags 0 1 sec 256 MiB

Submit a solution

Reset Load file Language: C Submit

```
1 #include <stdio.h>
2
3 int main(void) {
4     int h,b,A;
5     scanf("%d",&b);
6     scanf("%d",&h);
7
8     A = h * b;
9
10    printf("%d\n",A);
11    return 0;
12 }
13
```

Previous submissions

ID	Time and date	Status	File(s)
144460	1/10/2018, 5:51:12 PM	100 / 100	Scarica

Statistiche

🏠 fis1718

✎ Lessons

🏆 Ranking

👤 prova ▾



Area rettangolo

📄 Statement

📎 Attachments **1**

📊 Stats

</> Submissions

🏷️ Tags **0**

🕒 1 sec

📄 256 MiB

Stats

Number of people who solved it:	1
Number of people who tried it:	1
Number of correct submissions:	2
Number of solutions submitted:	5

Users with the best solutions

> prova	0
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Utilizzare i TestSet in Locale

Compilazione, Esecuzione e Confronto dell'Output con l'Output atteso

Cosa sono i TestSet

Un insieme di file di input “input0.txt”, “input1.txt”, “input2.txt” etc....

Un insieme di file di output “output0.txt”, “output1.txt”, “output2.txt” etc....

Dove “output-i.txt” è l’output atteso per l’input nel file “input-i.txt”

Input vs Output

Il file `input0.txt` contiene due righe:

18

2

Il file `output0.txt` contiene la riga:

36

Quando eseguiamo:

```
./a.out < input0.txt
```

La prima `scanf` legge 18

La second `scanf` legge 2

Il risultato stampato, ovvero tutto ciò che viene stampato dal programma, deve essere uguale al contenuto di `output0.txt`:

36

Scaricare i test

Area rettangolo

 Statement  Attachments **1**  Stats  Submissions

 Tags **0**  1 sec  256 MiB

Attachments

TestSet.zip

 Download everything as zip

Scrivere la soluzione

- Scompattiamo TestSet.zip
- Apriamo il terminale e andiamo nella directory dove abbiamo salvato i test.

```
cd /path/dove/abbiamo/salvato/i/test
```

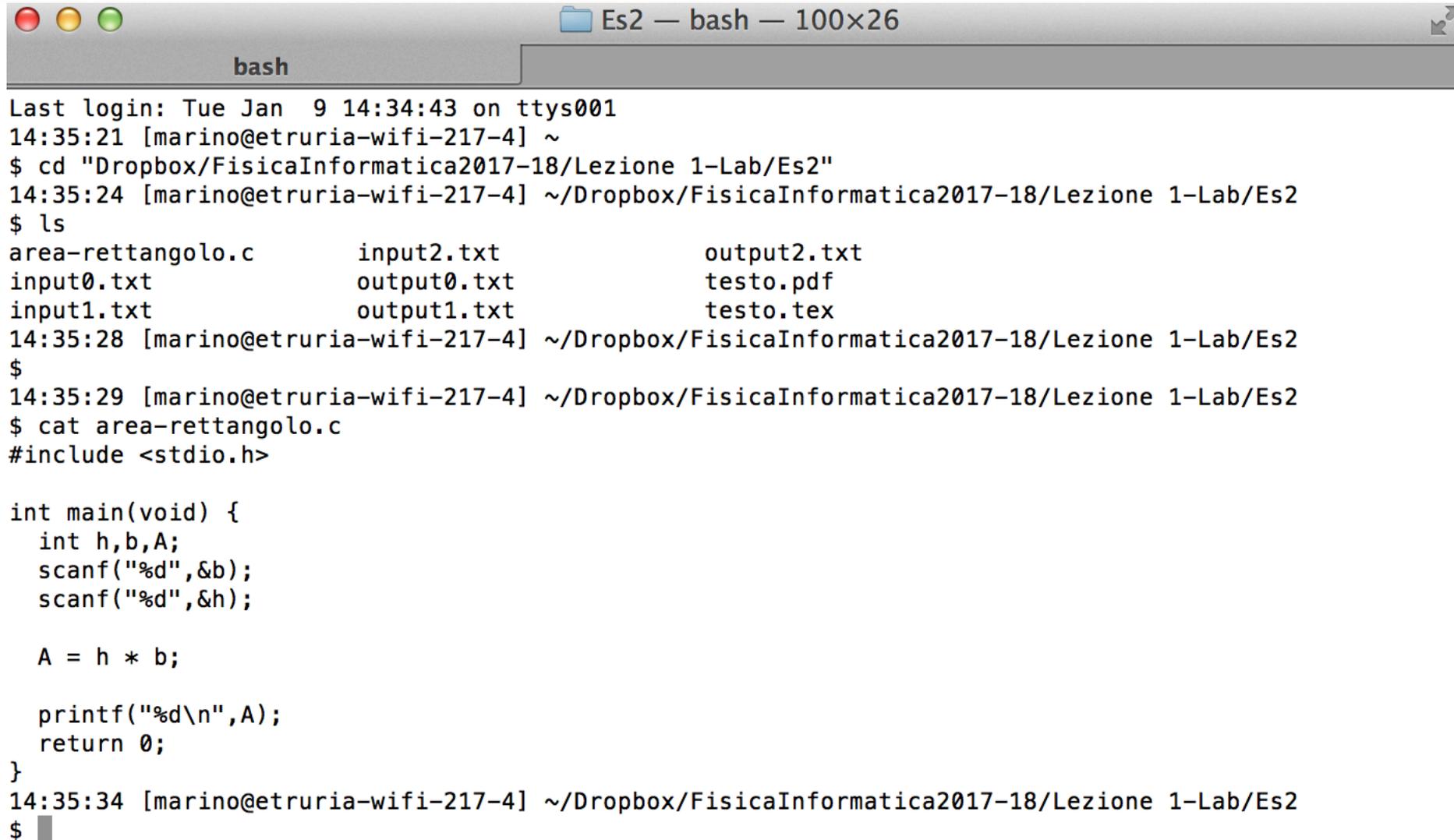
- Apriamo gedit: nelle aule di laboratorio è sufficiente scrivere sul terminale

```
gedit &
```

Possiamo usare qualsiasi editor di testo altrimenti.

- Risolviamo l'esercizio e salviamolo nel file **area-rettangolo.c**

Compilazione ed Esecuzione



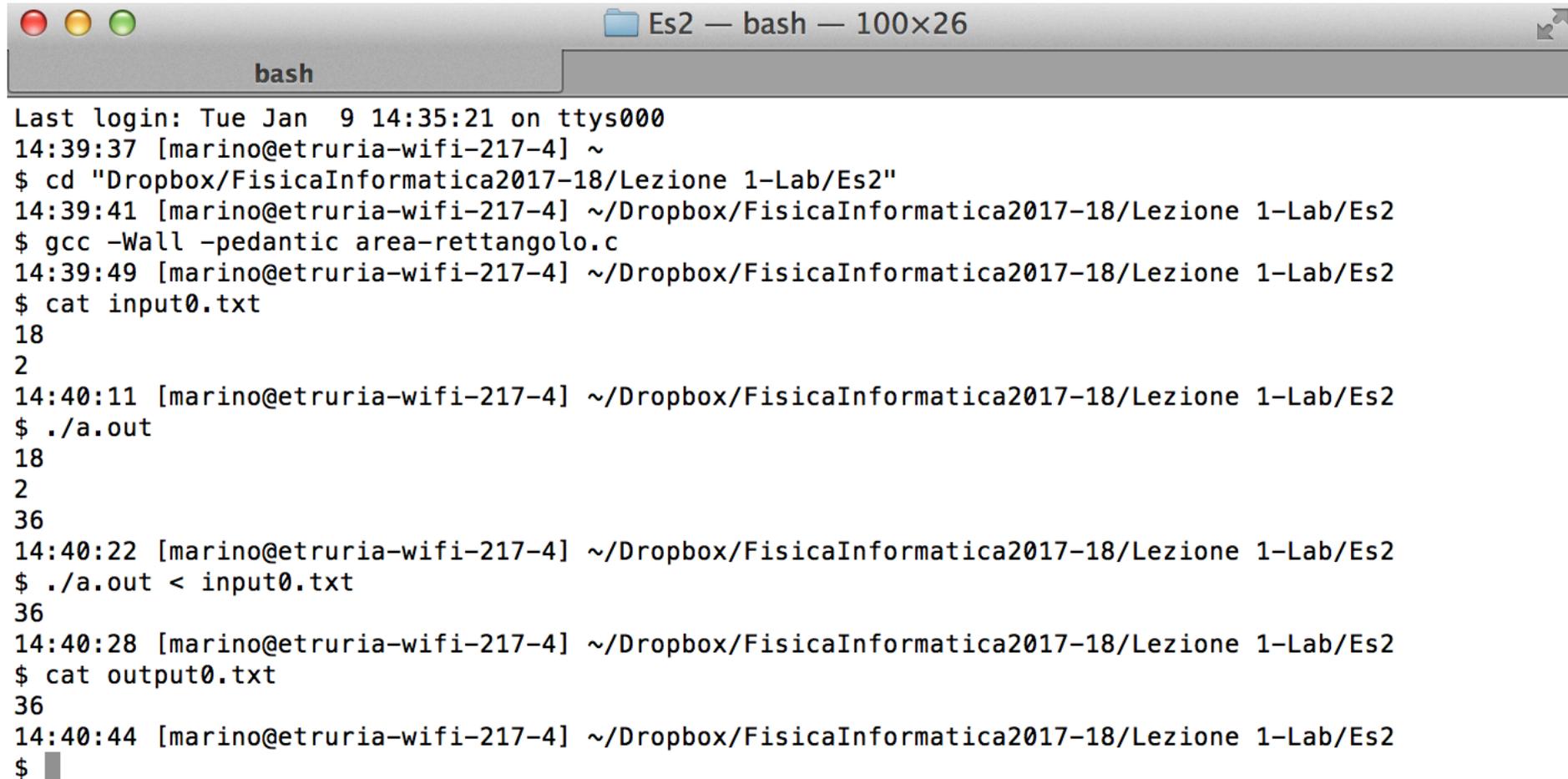
```
Es2 — bash — 100x26
bash
Last login: Tue Jan  9 14:34:43 on ttys001
14:35:21 [marino@etruria-wifi-217-4] ~
$ cd "Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2"
14:35:24 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ ls
area-rettangolo.c      input2.txt             output2.txt
input0.txt              output0.txt            testo.pdf
input1.txt              output1.txt            testo.tex
14:35:28 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
14:35:29 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ cat area-rettangolo.c
#include <stdio.h>

int main(void) {
    int h,b,A;
    scanf("%d",&b);
    scanf("%d",&h);

    A = h * b;

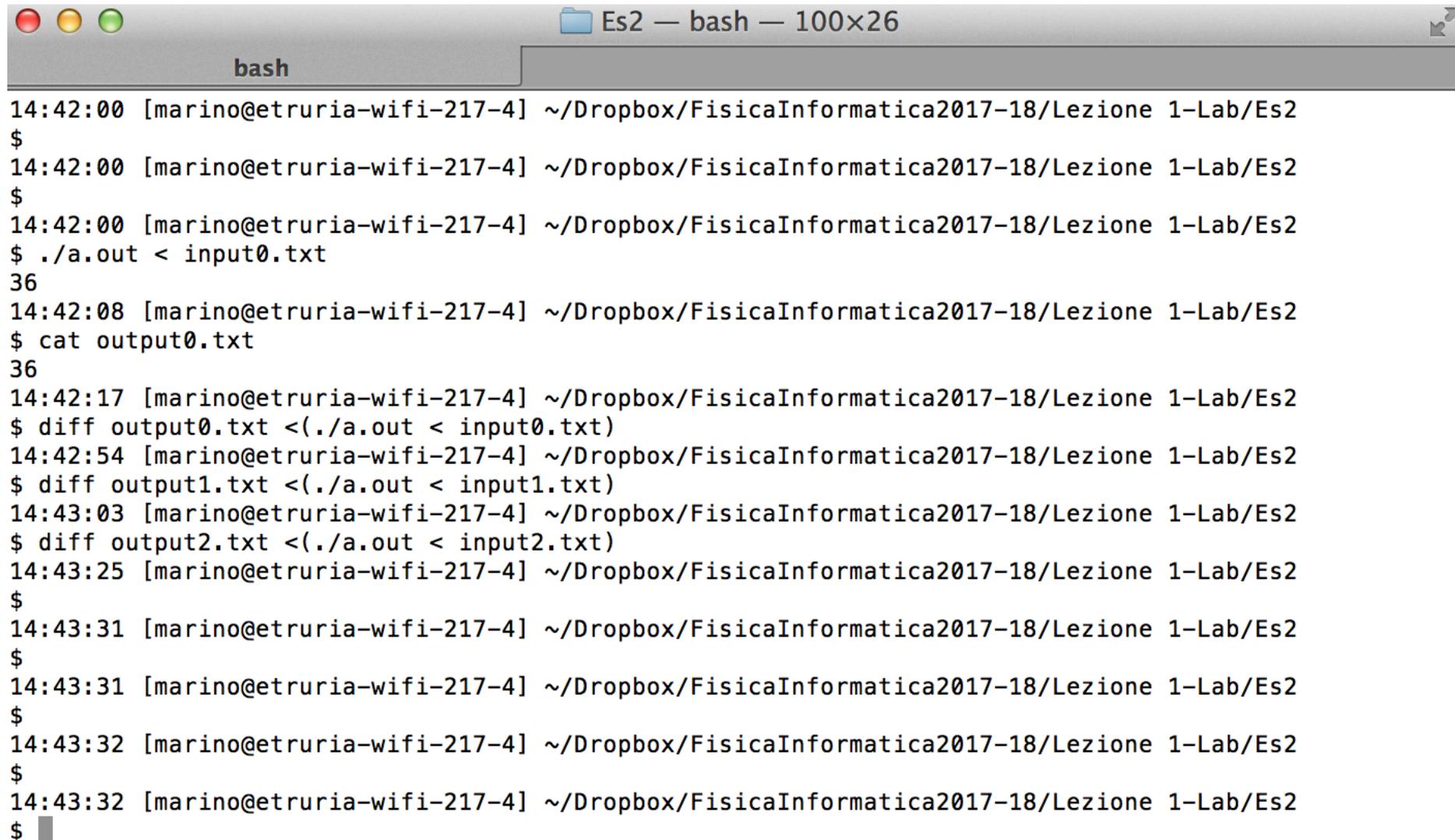
    printf("%d\n",A);
    return 0;
}
14:35:34 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
```

Compilazione ed Esecuzione



```
Es2 — bash — 100x26
bash
Last login: Tue Jan  9 14:35:21 on ttys000
14:39:37 [marino@etruria-wifi-217-4] ~
$ cd "Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2"
14:39:41 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ gcc -Wall -pedantic area-rettangolo.c
14:39:49 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ cat input0.txt
18
2
14:40:11 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ ./a.out
18
2
36
14:40:22 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ ./a.out < input0.txt
36
14:40:28 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ cat output0.txt
36
14:40:44 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
```

Confrontiamo l'output con l'output atteso



```
bash
14:42:00 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
14:42:00 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
14:42:00 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ ./a.out < input0.txt
36
14:42:08 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ cat output0.txt
36
14:42:17 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ diff output0.txt <(. /a.out < input0.txt)
14:42:54 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ diff output1.txt <(. /a.out < input1.txt)
14:43:03 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$ diff output2.txt <(. /a.out < input2.txt)
14:43:25 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
14:43:31 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
14:43:31 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
14:43:32 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
14:43:32 [marino@etruria-wifi-217-4] ~/Dropbox/FisicaInformatica2017-18/Lezione 1-Lab/Es2
$
```