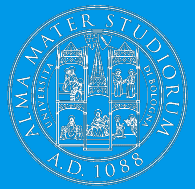


ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

Informatica di base 2024/2025

WRAP-UP

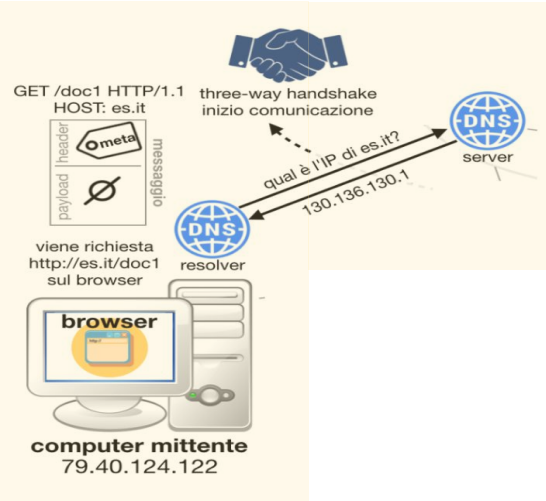
Ivan Heibi
Dipartimento di Filologia Classica e Italianistica (FICLIT)
Ivan.heibi2@unibo.it
https://www.unibo.it/sitoweb/ivan.heibi2

Sessione di tutoraggio

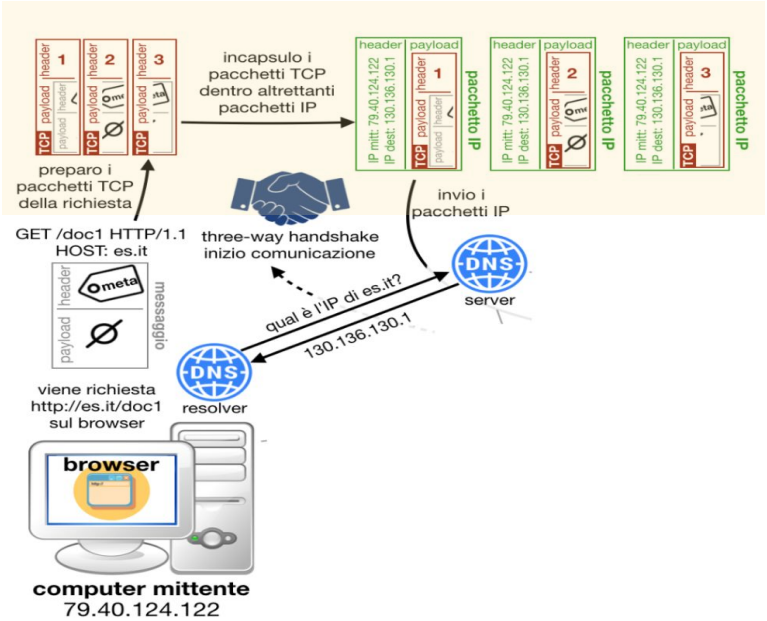
Mercoledì, 7 Maggio
17:00 - 19:00

In modalità remota su Teams
(il link sarà comunicato successivamente via email)

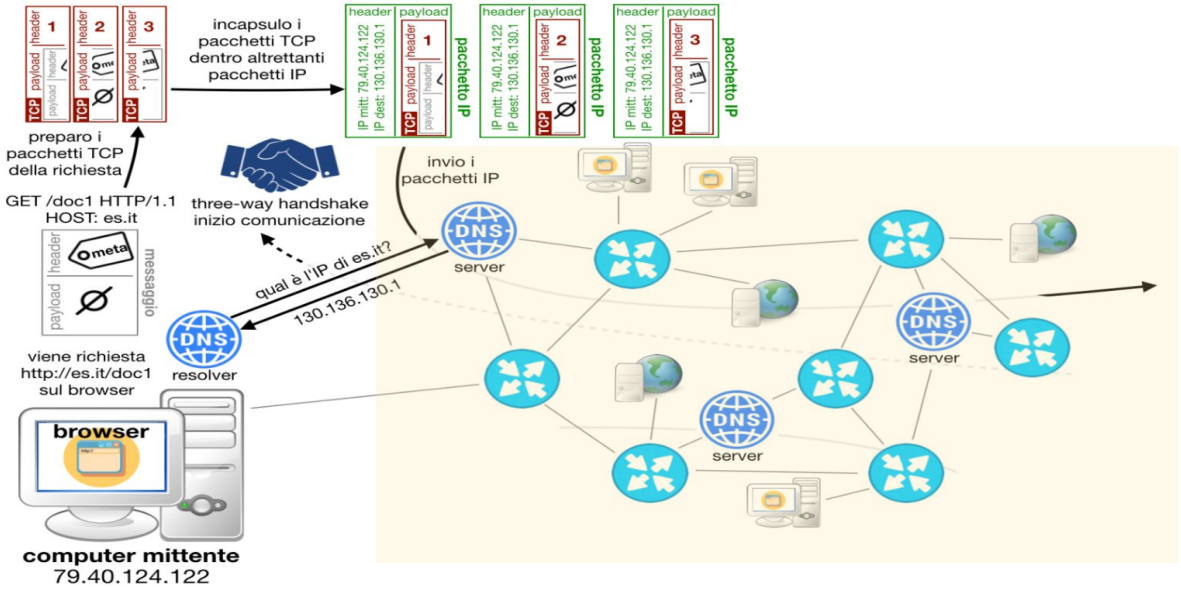
Riassunto comunicazione client - web server



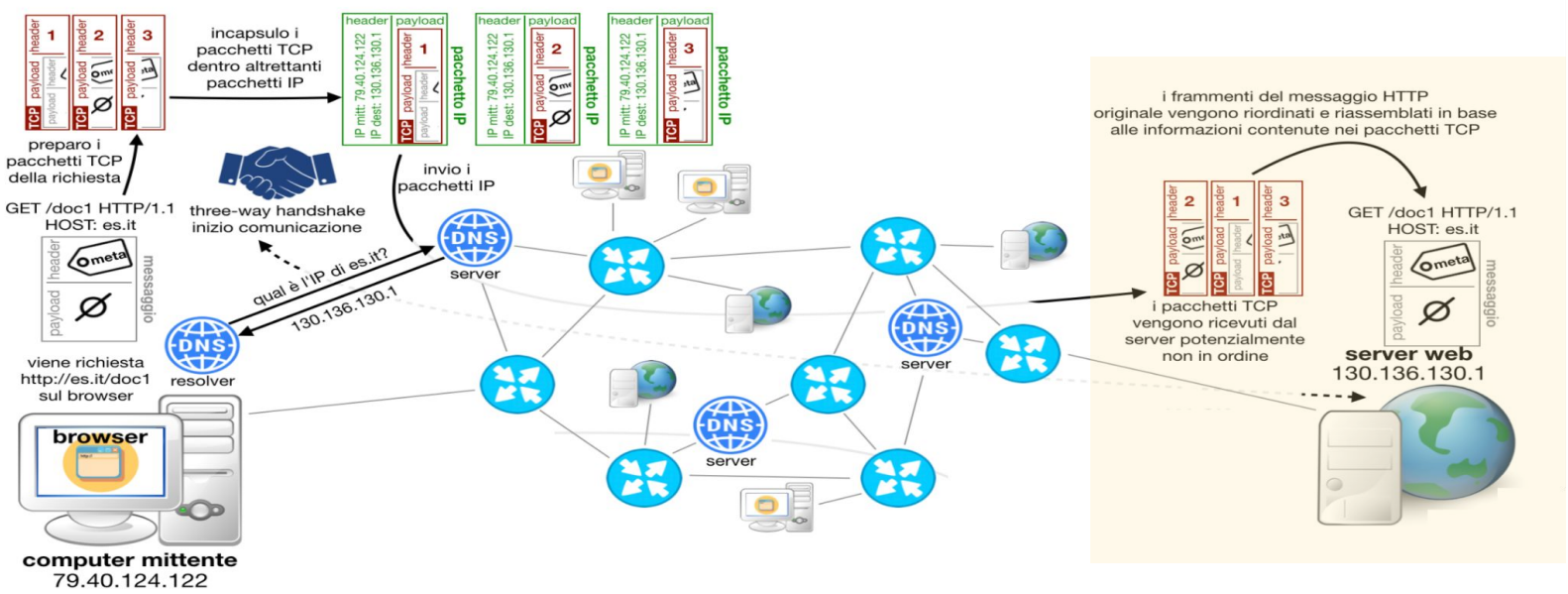
Riassunto comunicazione client - web server



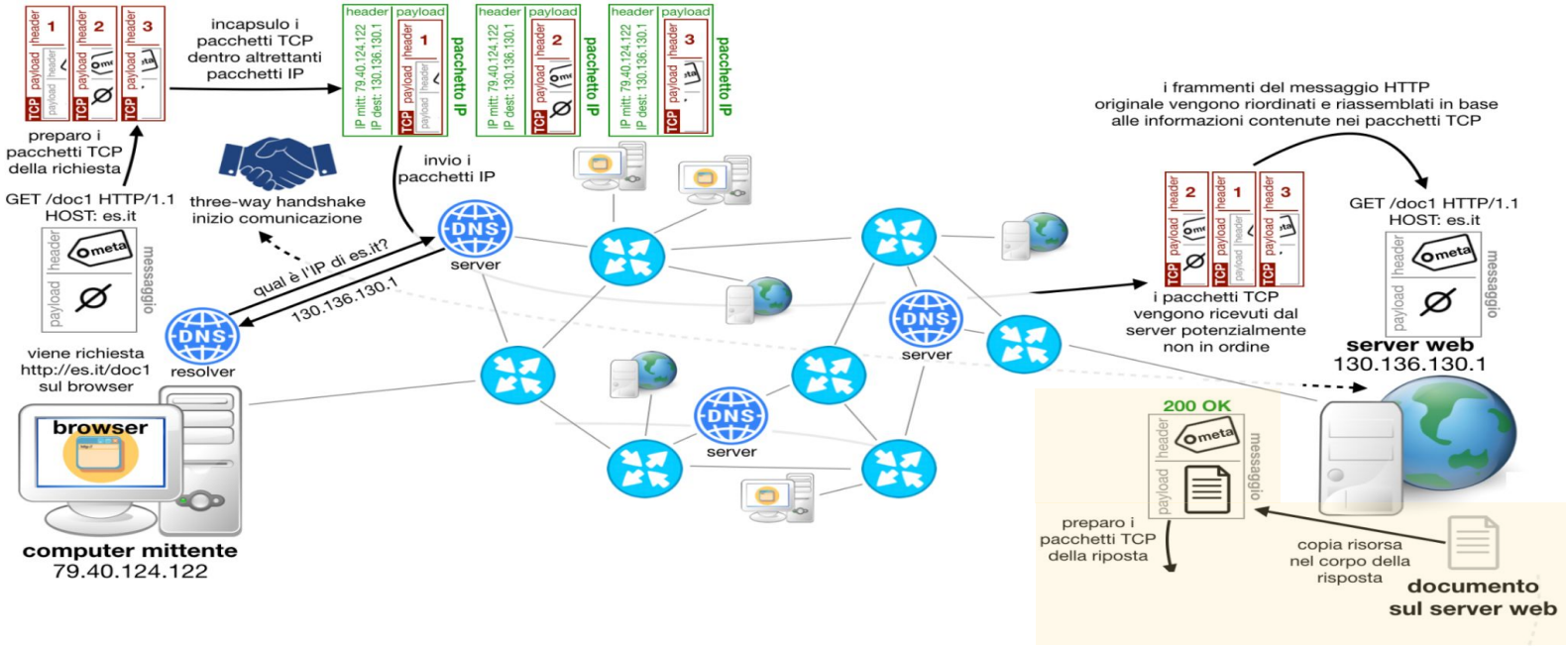
Riassunto comunicazione client - web server



Riassunto comunicazione client - web server



Riassunto comunicazione client - web server



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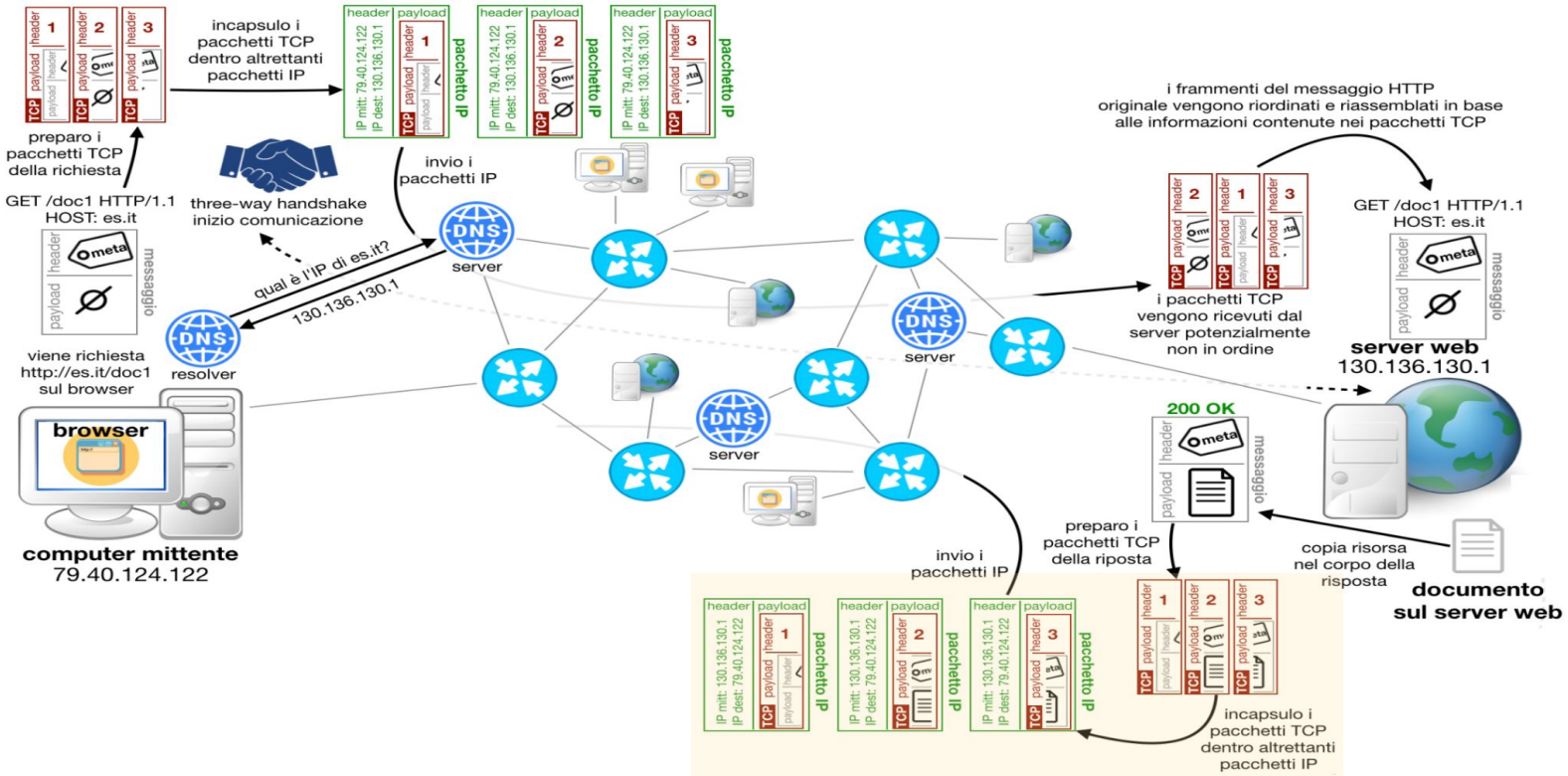

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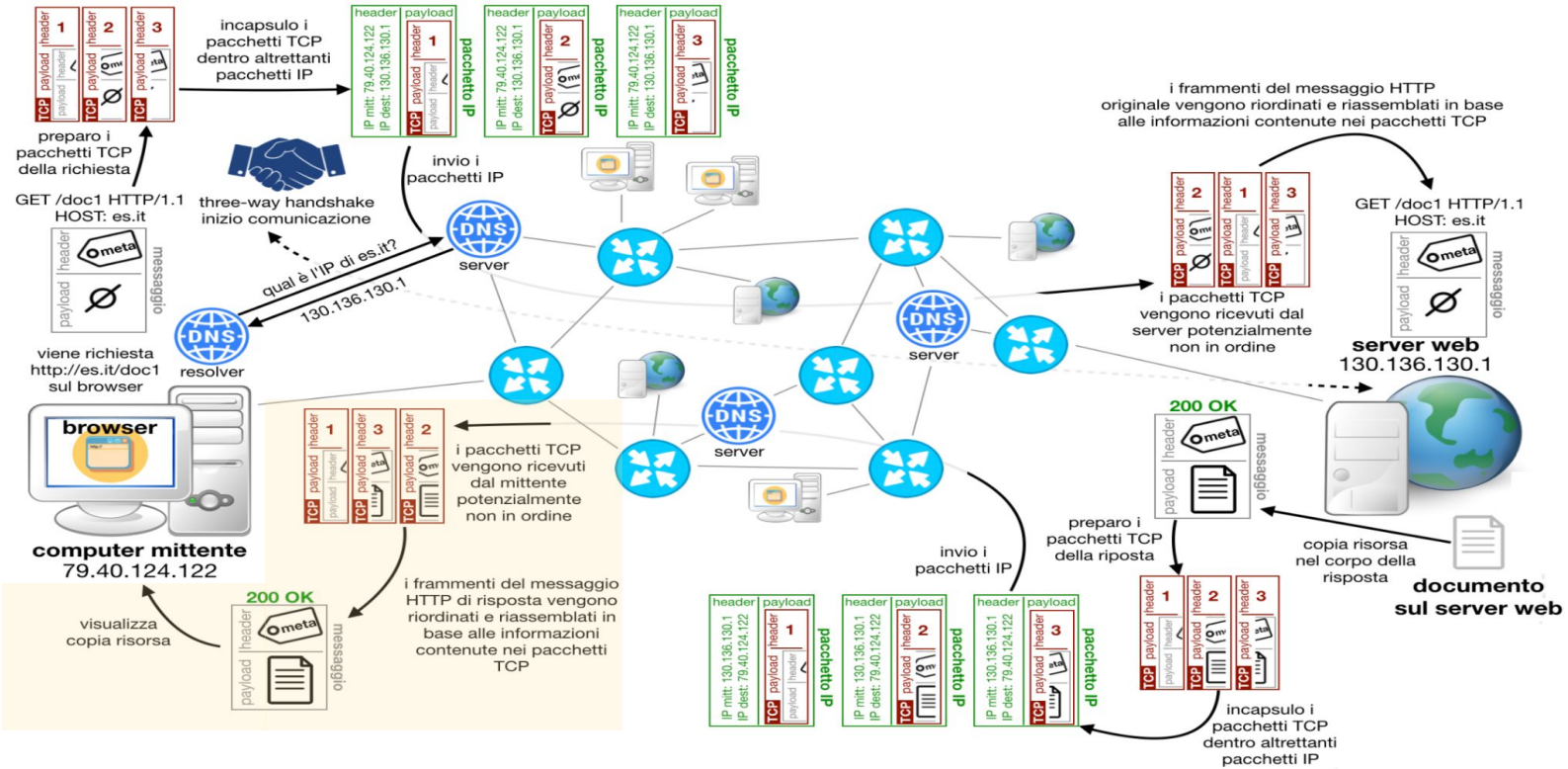


Riassunto comunicazione client - web server

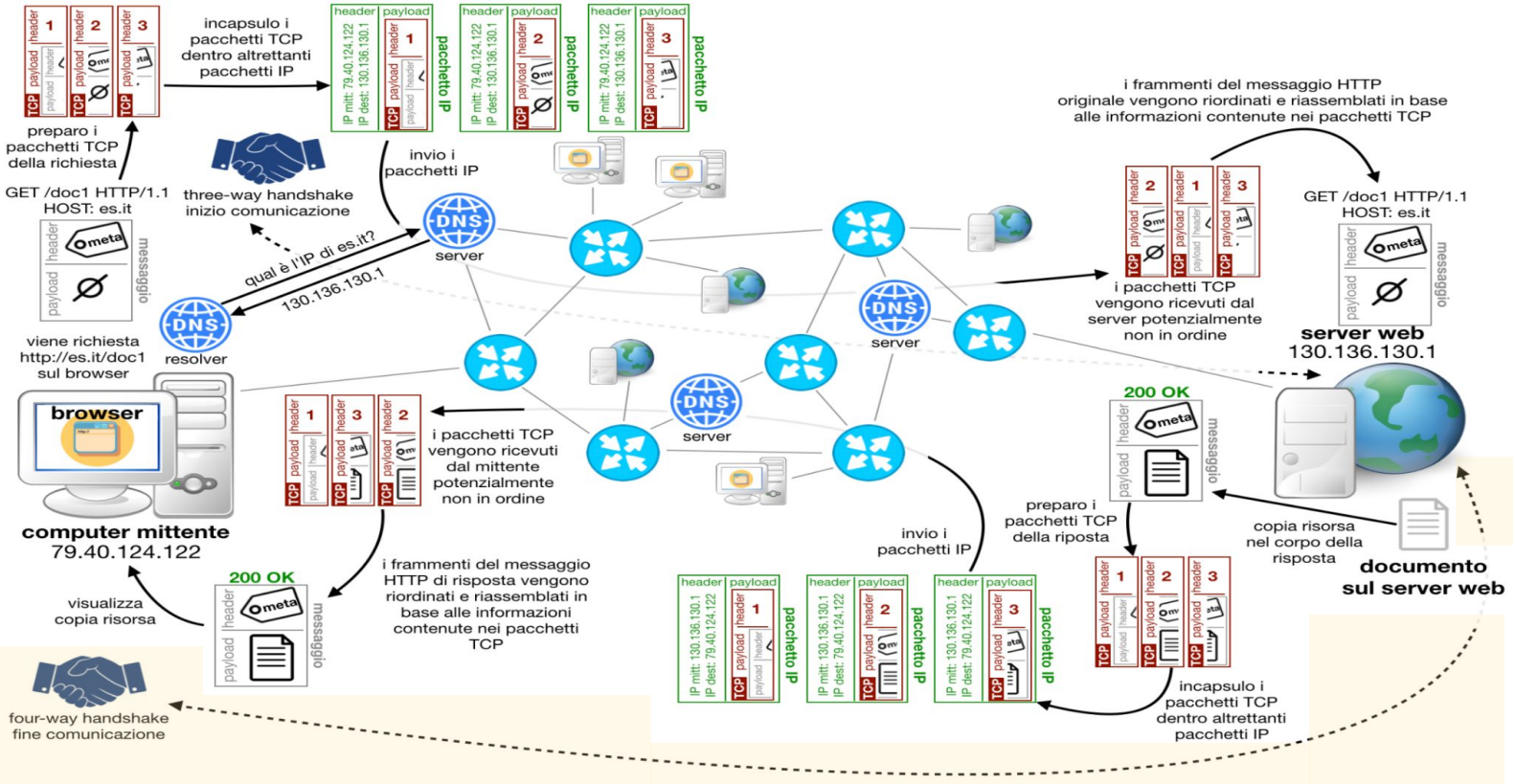
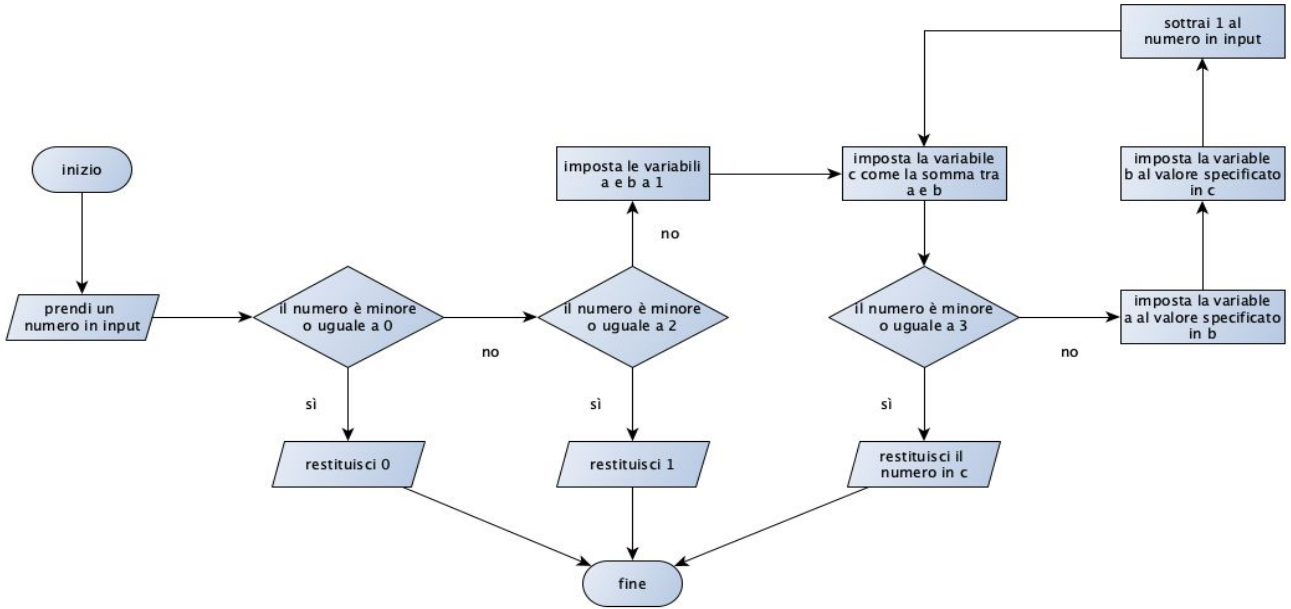
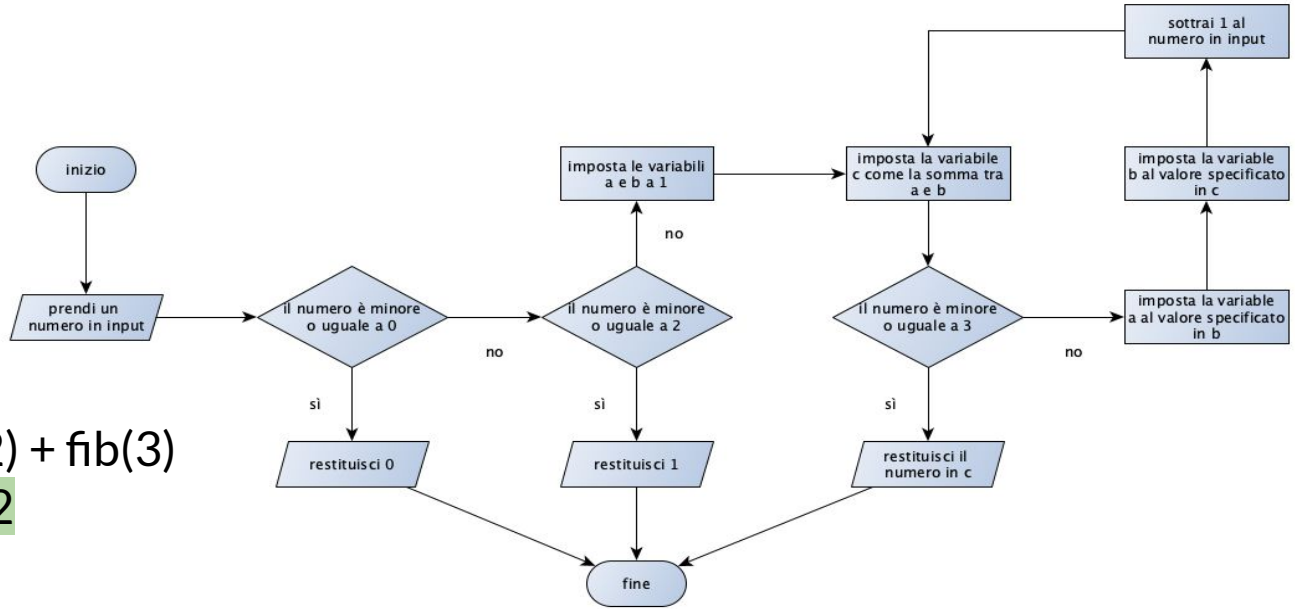


Diagramma di flusso di fib(n)



n =	***0***	***1***	***2***	***3***	***4***	***5***	***6***	***7***	***8***	***9***	***10***	***11***	***12***	***13***	***14***	***...***
fib(n) =	0	1	1	2	3	5	8	13	21	34	55	89	14	23	37	...

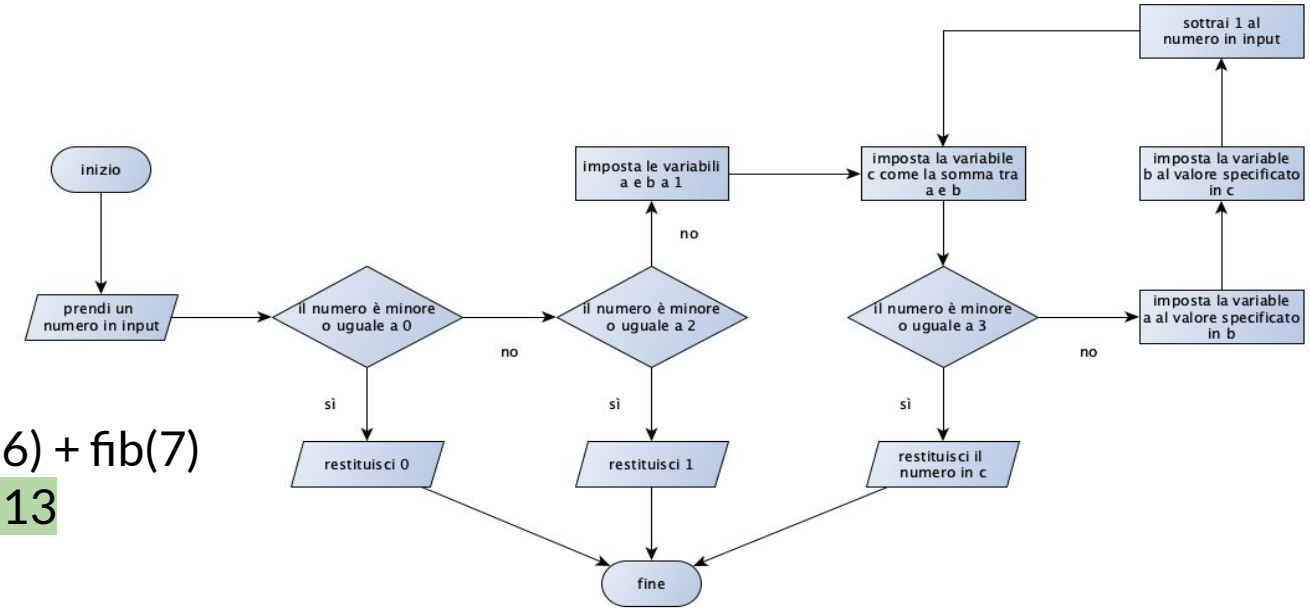
Diagramma di flusso di fib(n)



fib(4) = fib(2) + fib(3)
= 1 + 2
= 3

n =	*0*	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*...*
fib(n) =	0	1	1	2	3	5	8	13	21	34	55	89	14	23	37	...

Diagramma di flusso di fib(n)



fib(8) = fib(6) + fib(7)
= 8 + 13
= 21

n =	***0***	***1***	***2***	***3***	***4***	***5***	***6***	***7***	***8***	***9***	***10***	***11***	***12***	***13***	***14***	***...***
fib(n) =	0	1	1	2	3	5	8	13	21	34	55	89	14	23	37	...

Diagramma di flusso fib(n) per n = 6

numero = 6

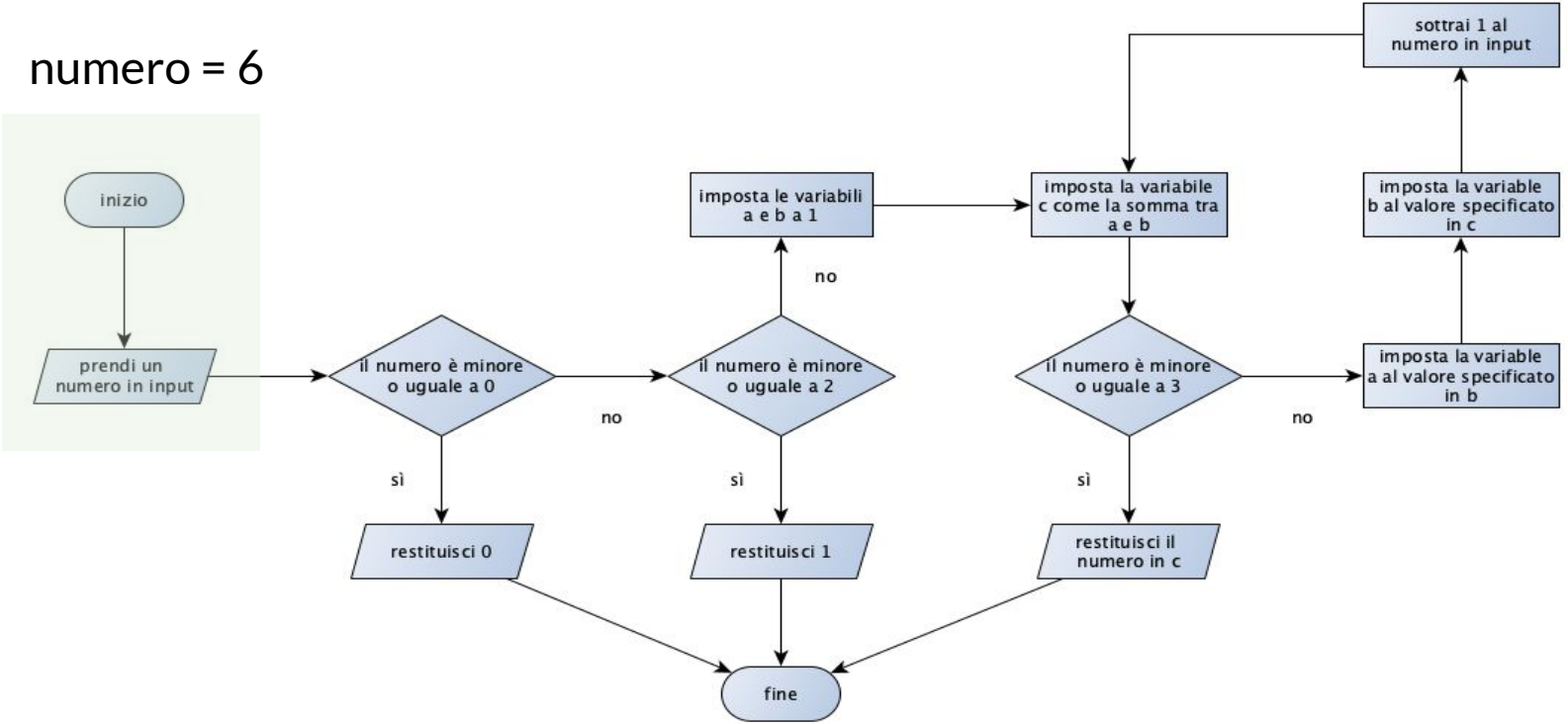


Diagramma di flusso fib(n) per n = 6

numero = 6

a	1
b	1

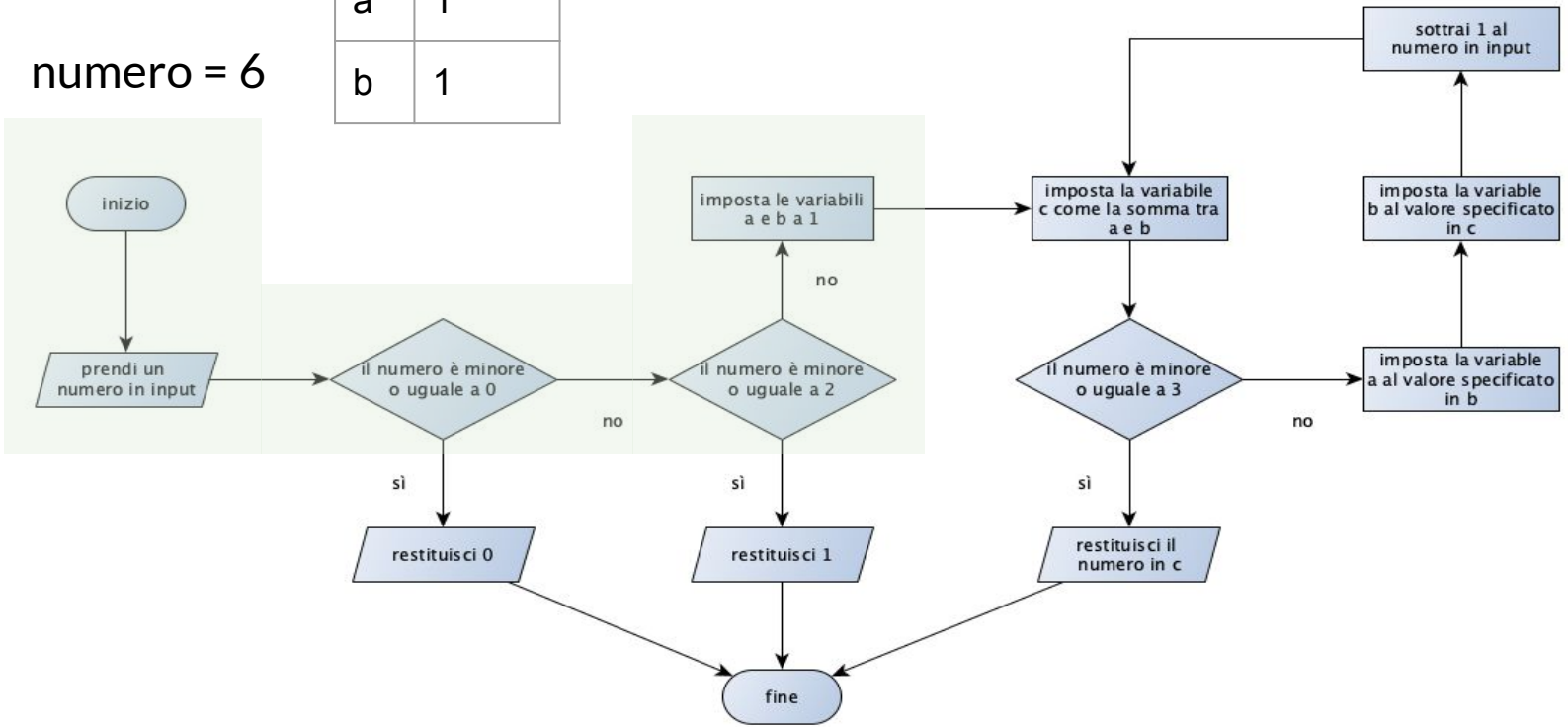


Diagramma di flusso fib(n) per n = 6

numero = 6

a	1
b	1
c	2

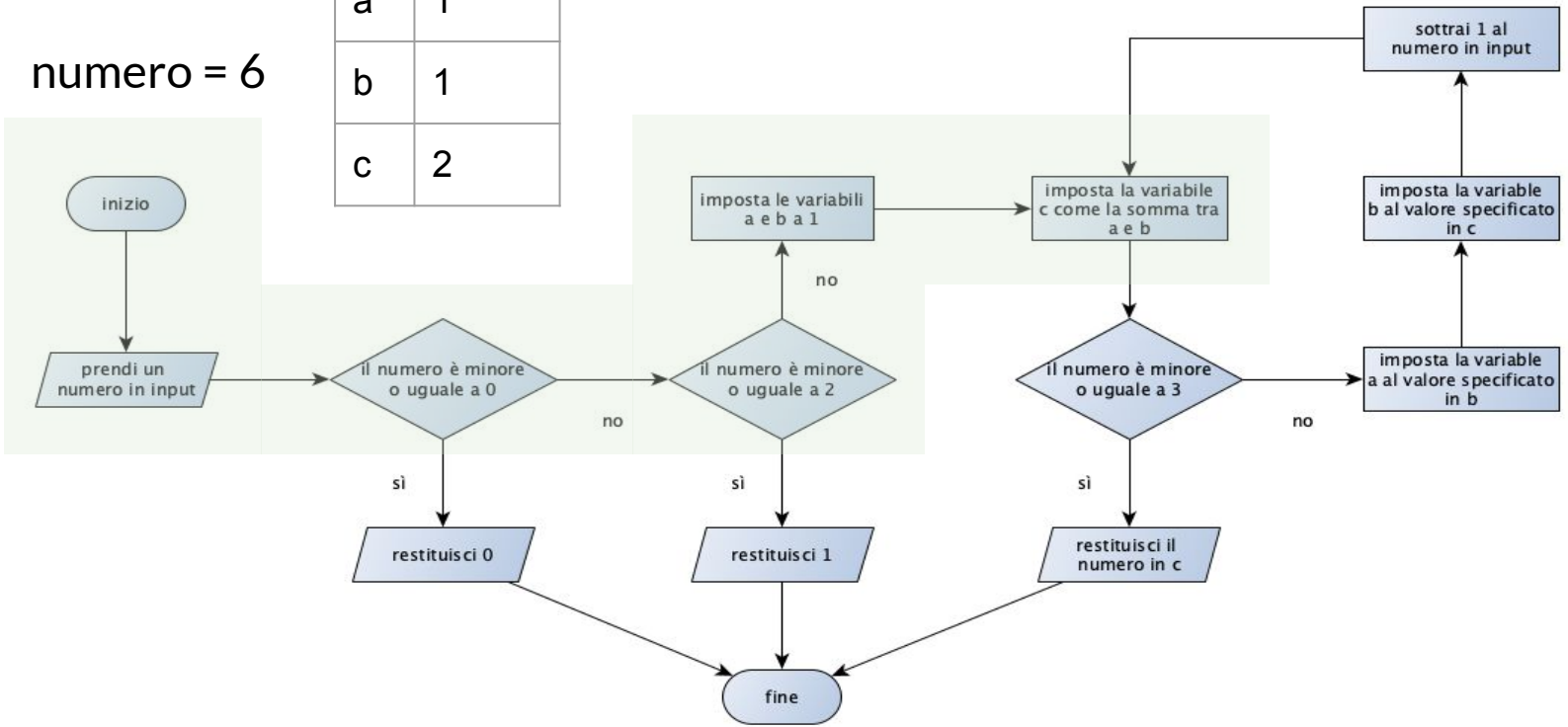


Diagramma di flusso fib(n) per n = 6

numero = 6

a	1
b	1
c	2

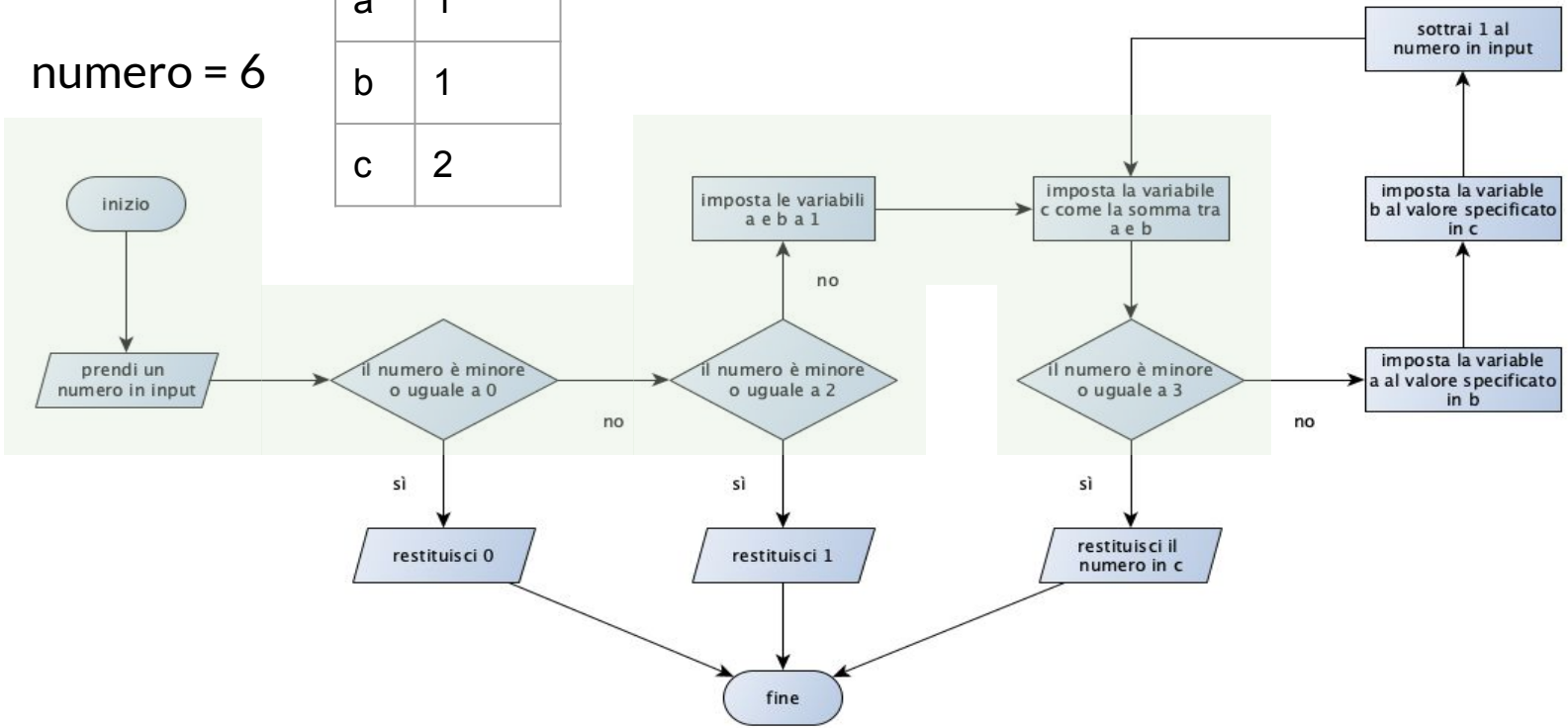


Diagramma di flusso fib(n) per n = 6

numero = 5

a	1
b	2
c	2

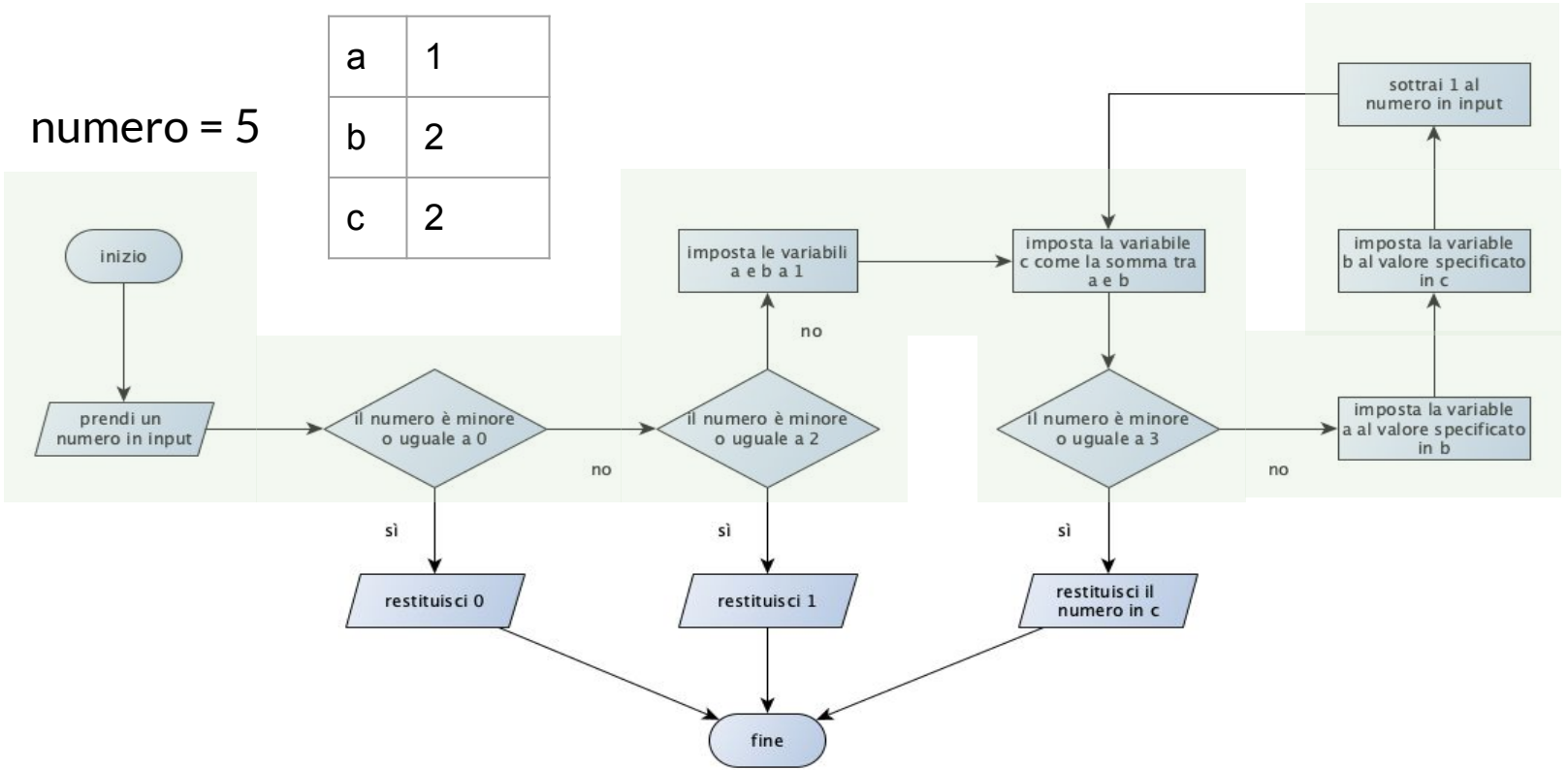


Diagramma di flusso fib(n) per n = 6

numero = 5

a	1
b	2
c	3

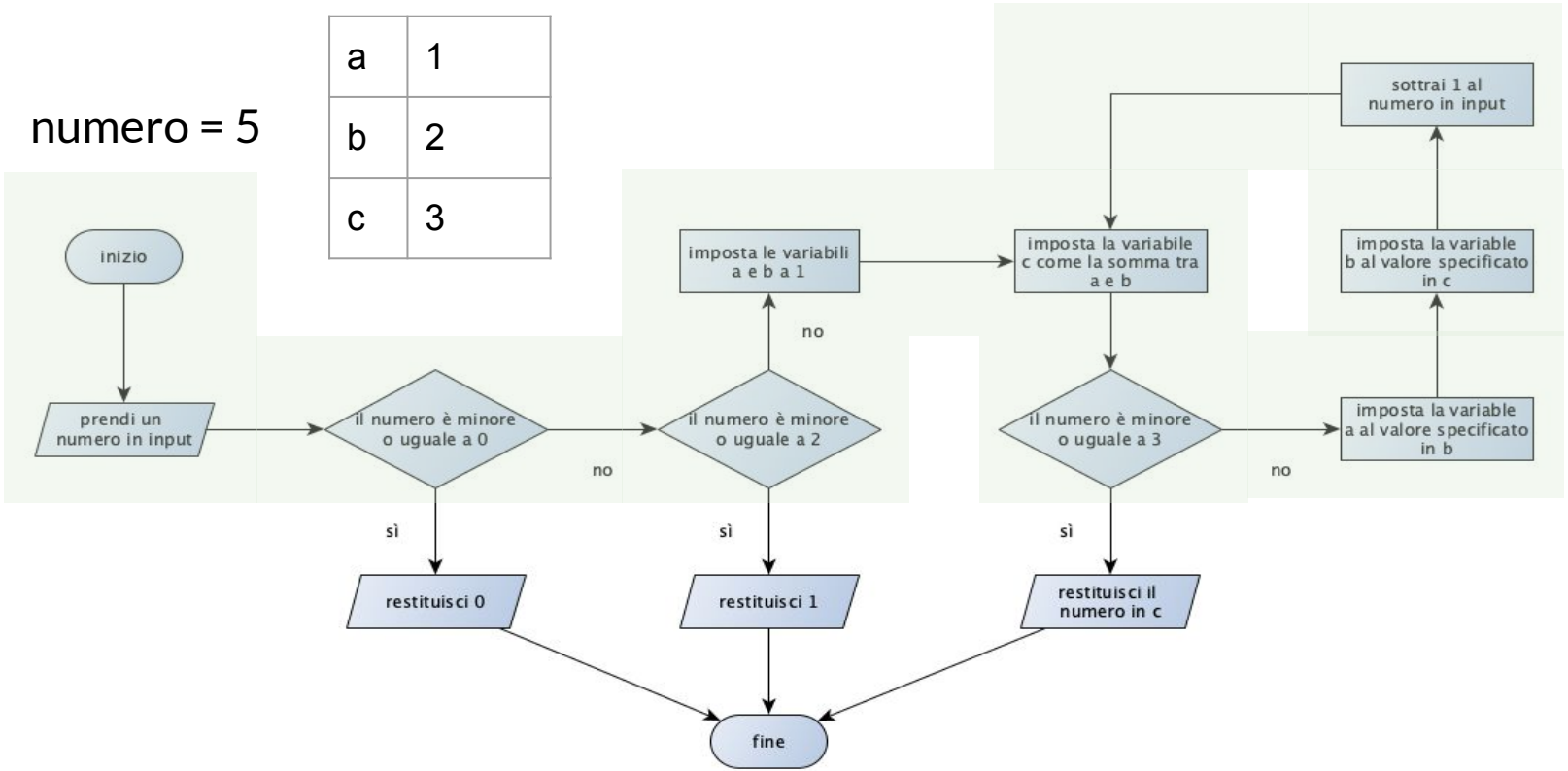


Diagramma di flusso fib(n) per n = 6

numero = 4

a	2
b	3
c	5

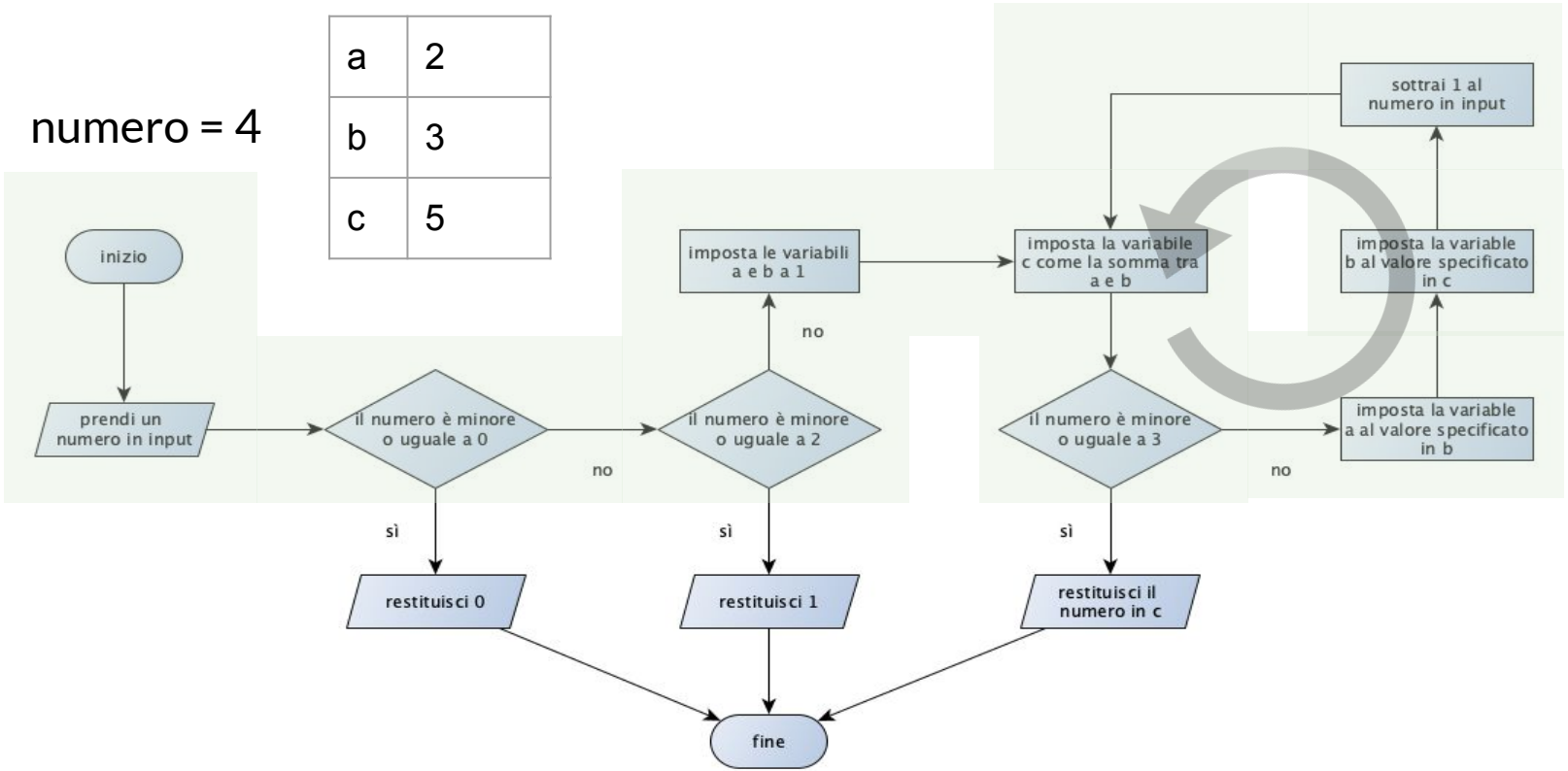


Diagramma di flusso fib(n) per n = 6

numero = 3

a	3
b	5
c	8

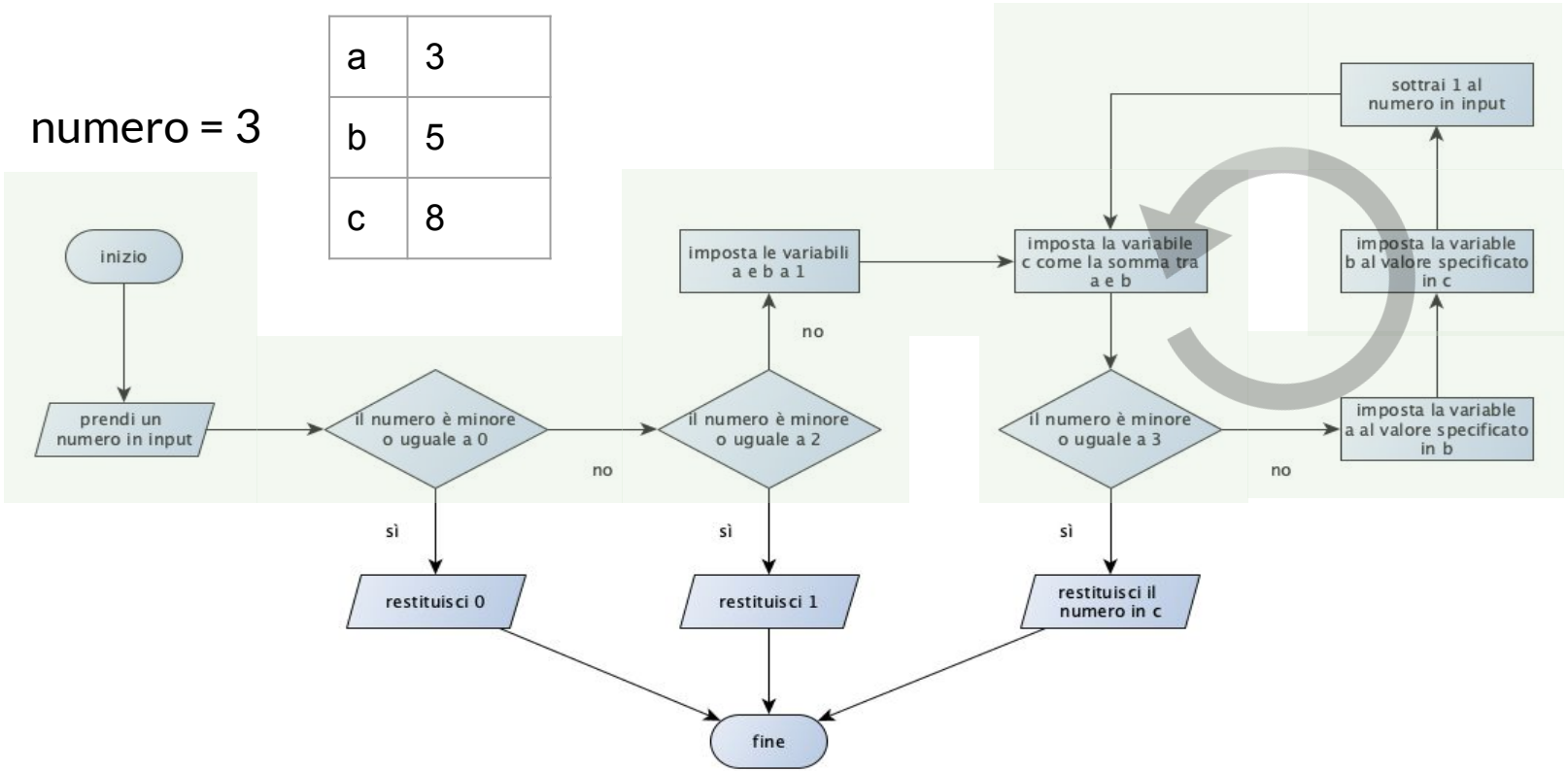


Diagramma di flusso fib(n) per n = 6

numero = 3

a	3
b	5
c	**8**

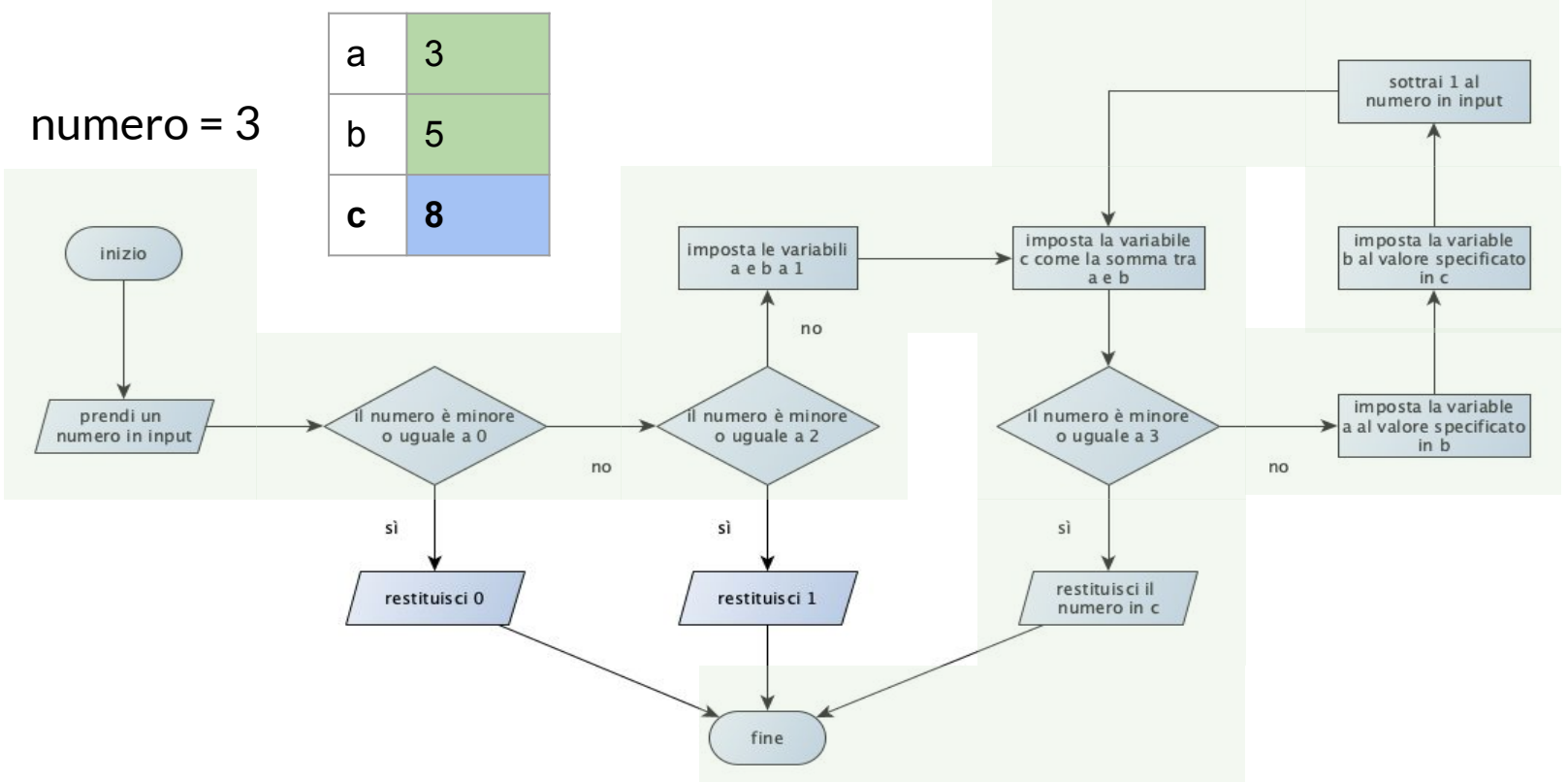


Diagramma di flusso di fib(n) – Python

```
def fib(n):
  if n <= 0:
    return 0
  elif n <= 2:
    return 1
  else:
    a = 1
    b = 1
    while True:
      c = a + b
      if n <= 3:
        return c
      a = b
      b = c
      n = n - 1
```

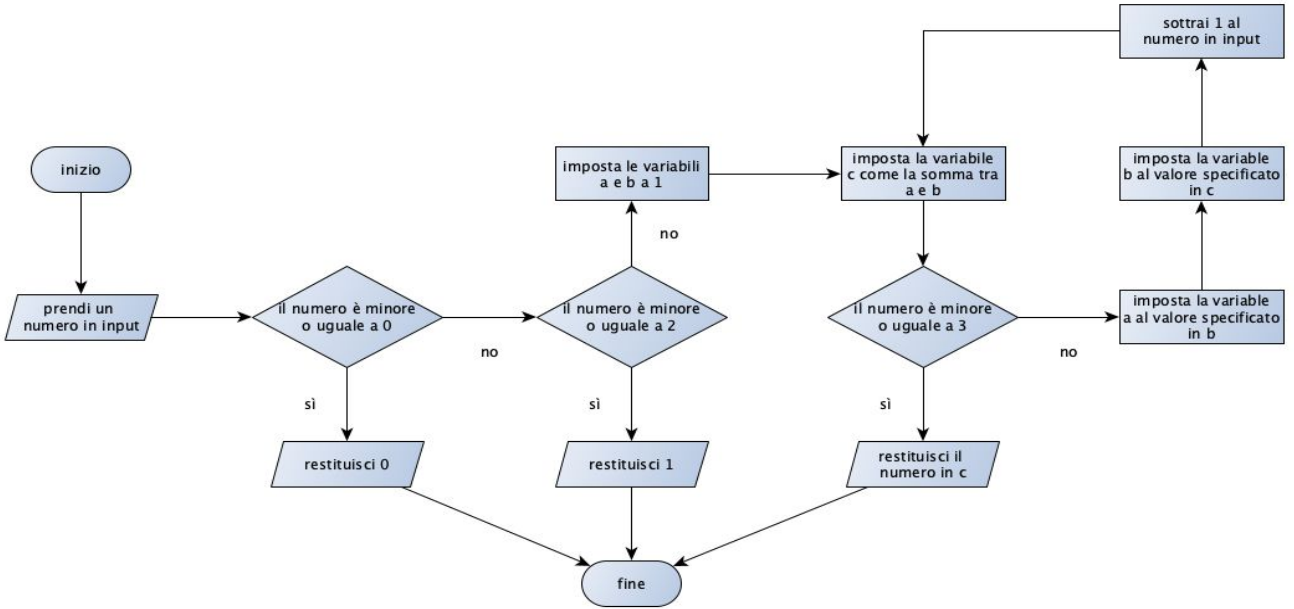


Diagramma di flusso – esercizio

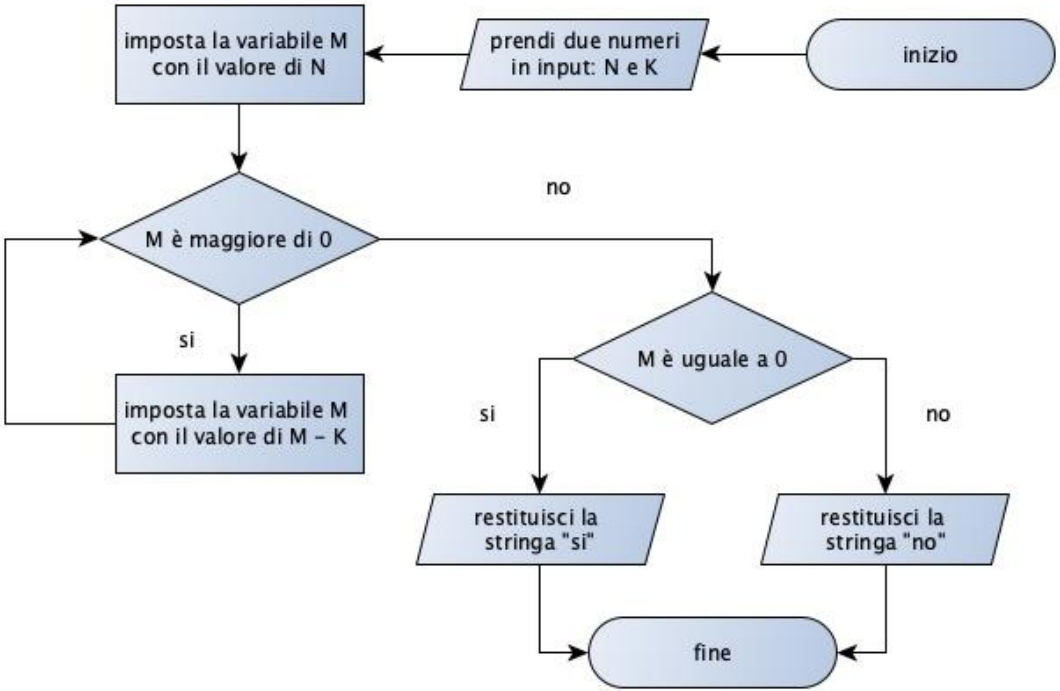


Diagramma di flusso – esercizio

N	15
K	4

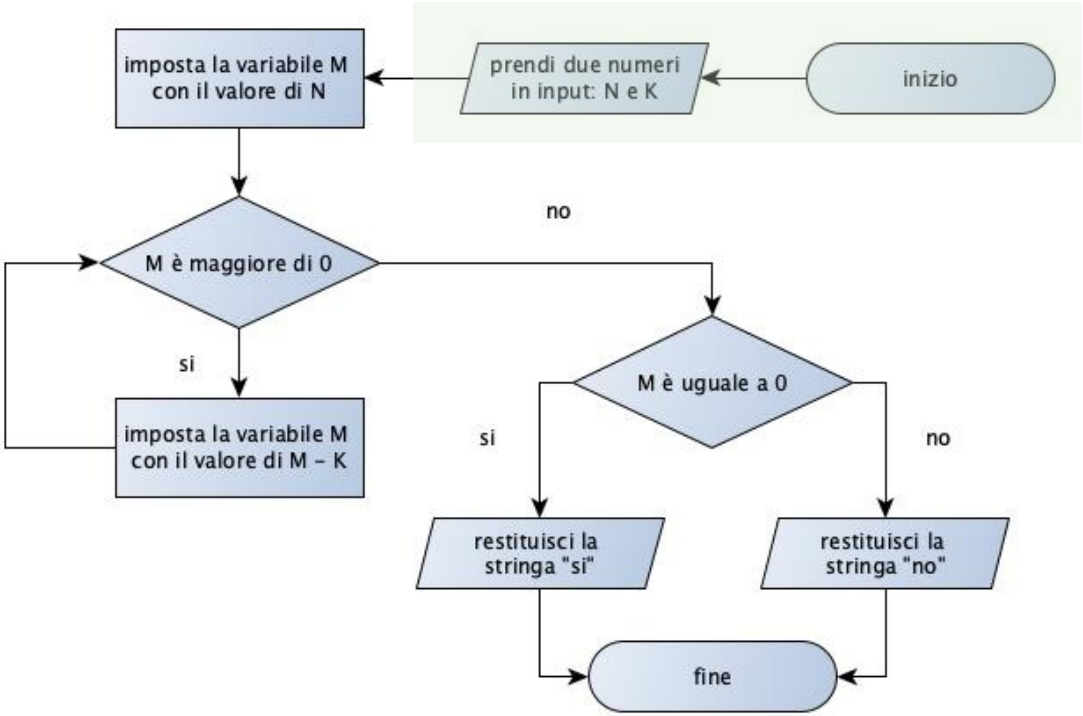


Diagramma di flusso – esercizio

N	15
K	4
M	15

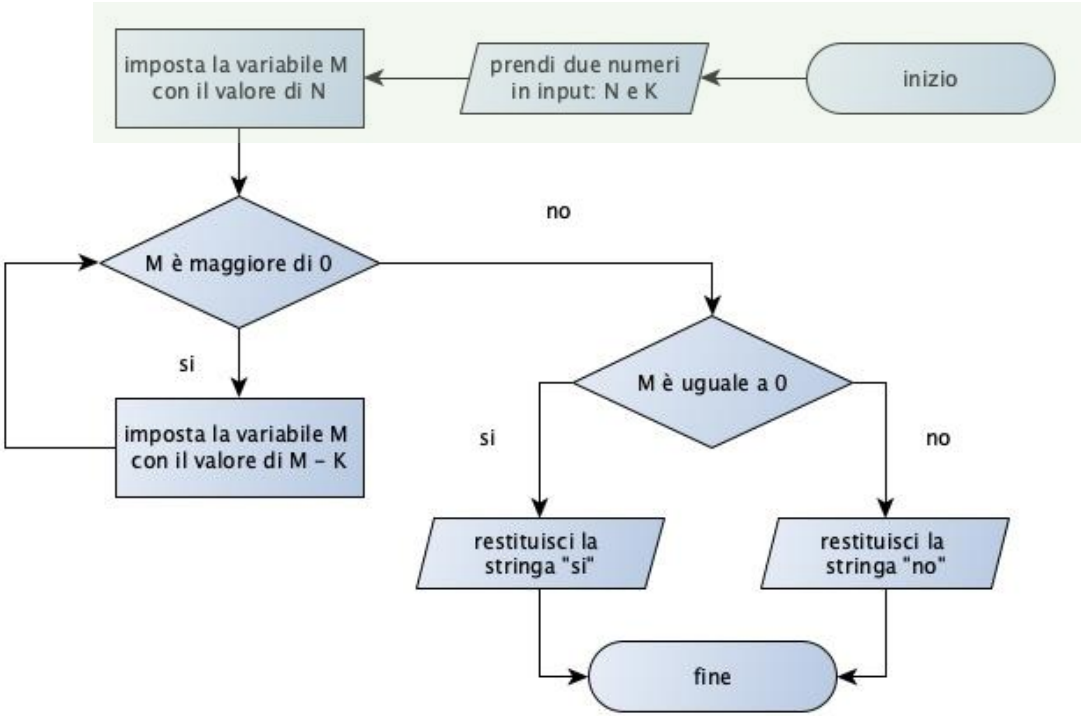


Diagramma di flusso – esercizio

N	15
K	4
M	11

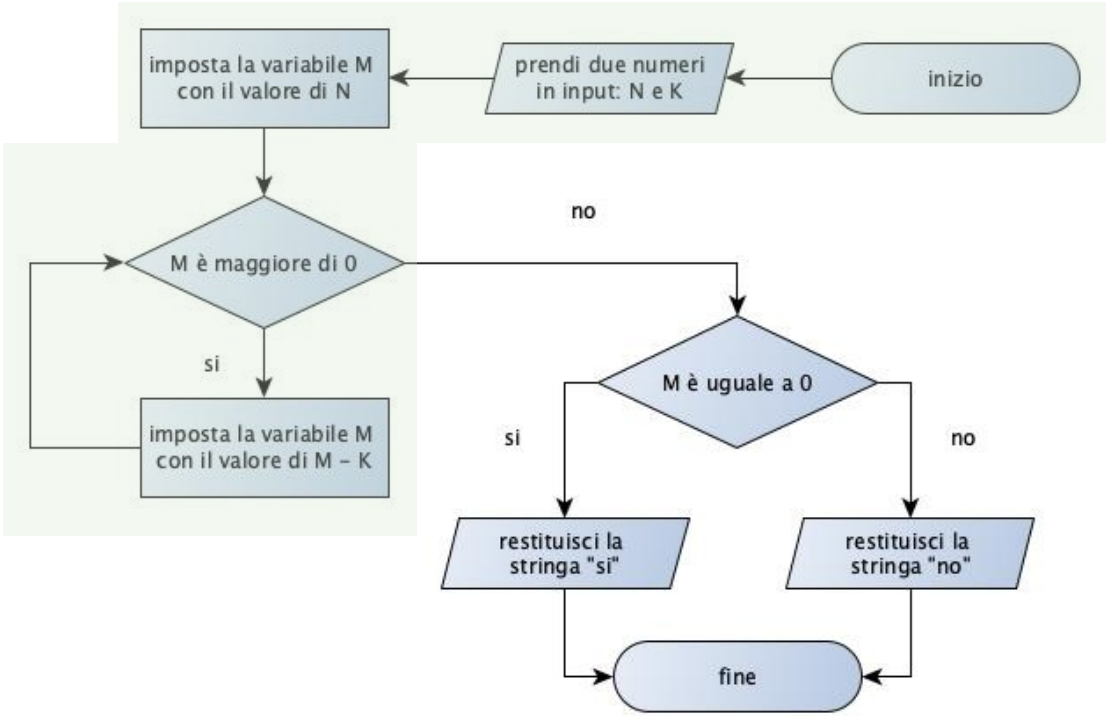


Diagramma di flusso – esercizio

N	15
K	4
M	7

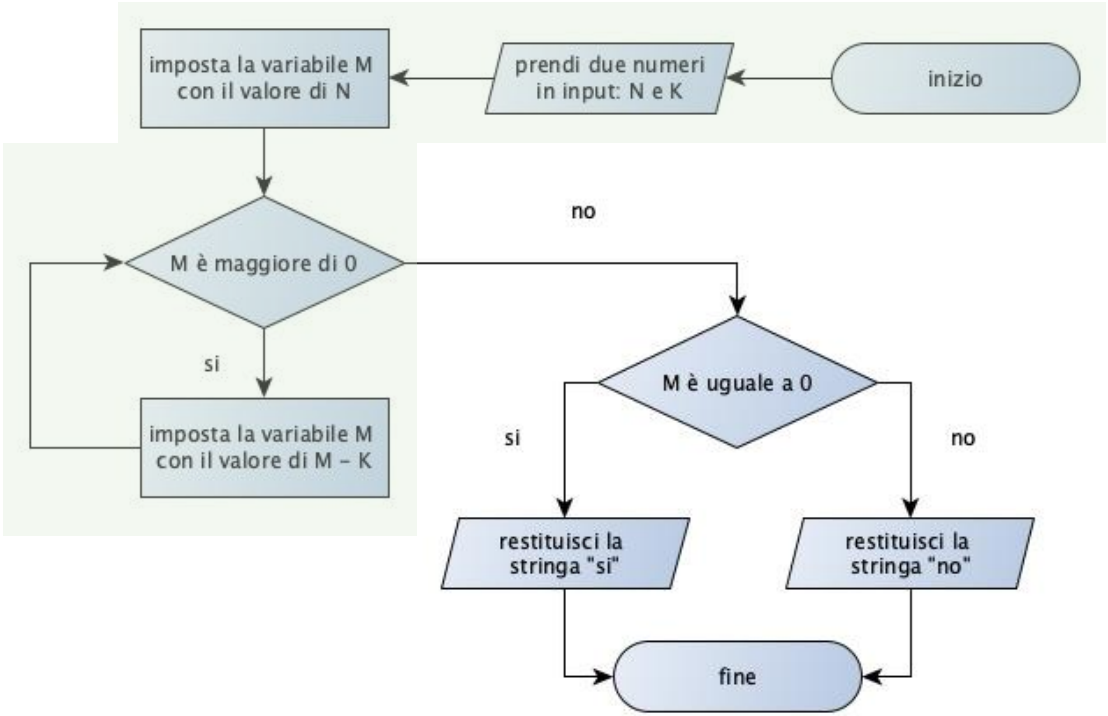


Diagramma di flusso – esercizio

N	15
K	4
M	3

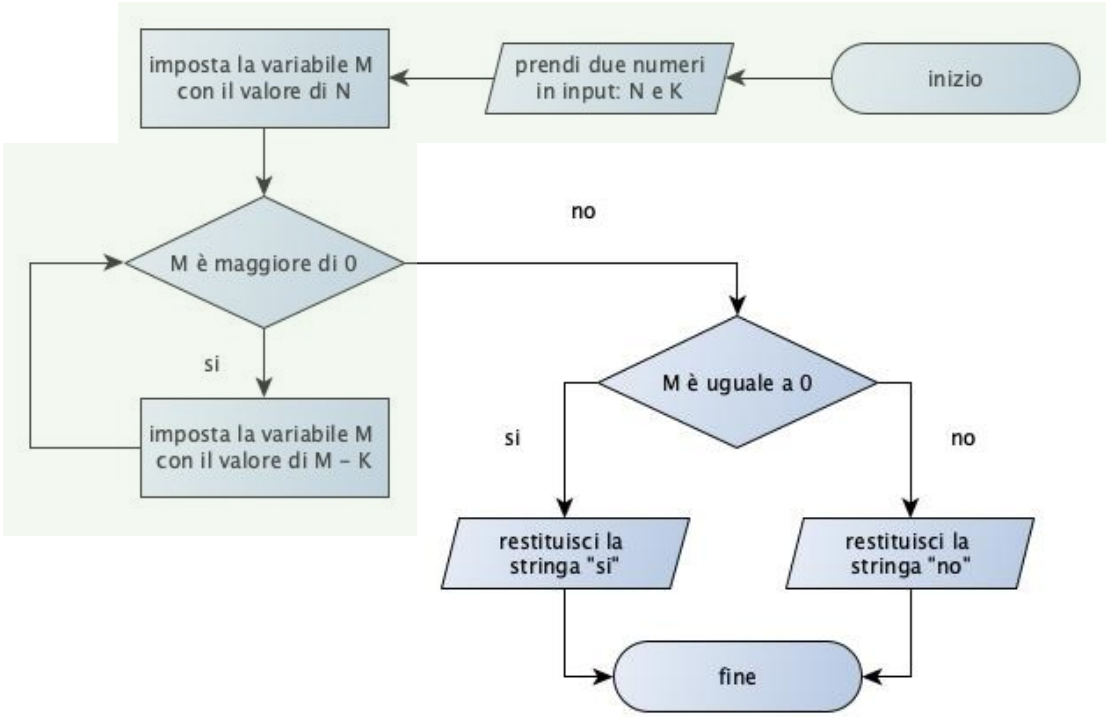


Diagramma di flusso – esercizio

N	15
K	4
M	-1

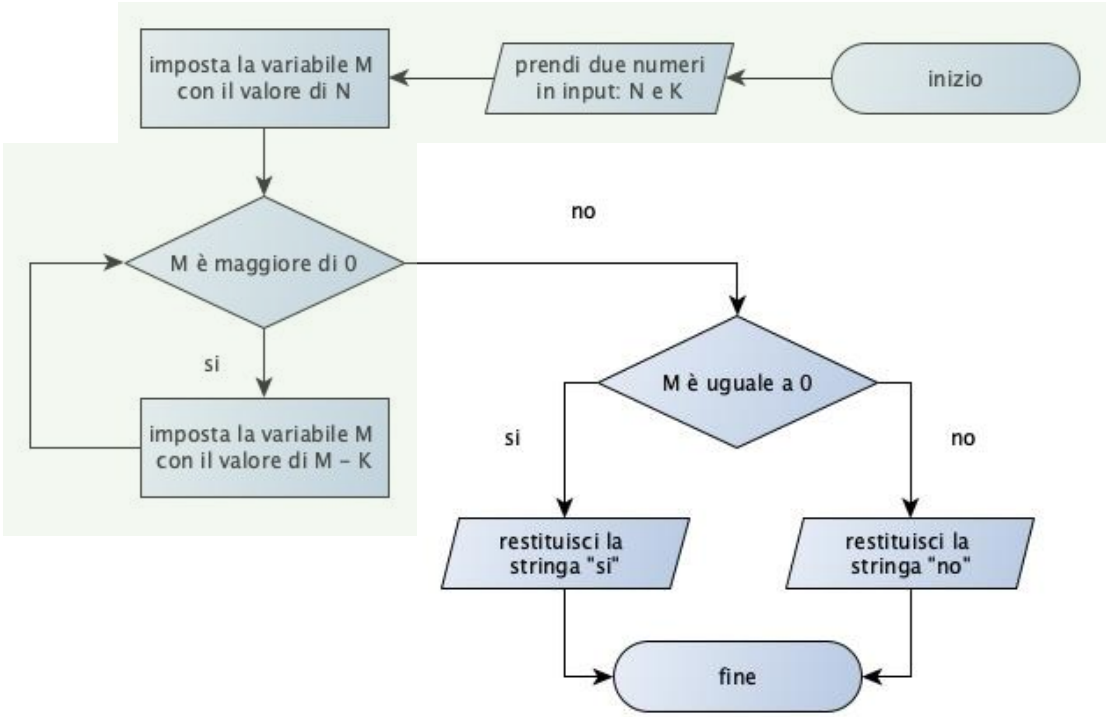
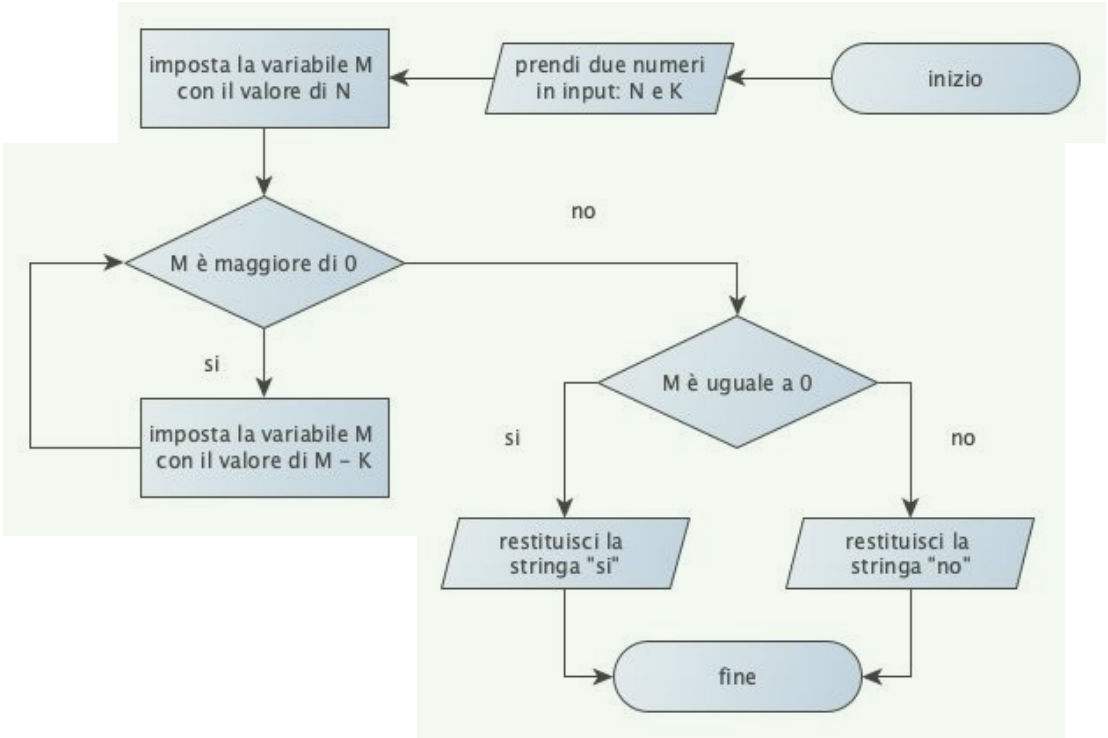


Diagramma di flusso – esercizio

N	15
K	4
M	-1



no

Sistema numerico binario

BYTE							
2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
128	**64**	**32**	**16**	**8**	**4**	**2**	**1**

208							
1	1	0	1	0	0	0	0
1×2^7	1×2^6	0×2^5	1×2^4	0×2^3	0×2^2	0×2^1	0×2^0
128	64	32	16	8	4	2	1
128 + 64 + 16 = 208							

Sistema numerico binario

154							
1	0	0	1	1	0	1	0
1×2^7	0×2^6	0×2^5	1×2^4	1×2^3	0×2^2	1×2^1	0×2^0
128	64	32	16	8	4	2	1
128 + 16 + 8 + 2 = 154							

Sistema numerico binario

80							
?	?	?	?	?	?	?	?
? x 2^7	? x 2^6	? x 2^5	? x 2^4	? x 2^3	? x 2^2	? x 2^1	? x 2^0
128	64	32	16	8	4	2	1

Sistema numerico binario

80							
0	1	0	1	0	0	0	0
0×2^7	1×2^6	0×2^5	1×2^4	0×2^3	0×2^2	0×2^1	0×2^0
128	64	32	16	8	4	2	1
64 + 16 = 80							