Informatics 2   midterm 2   Spring 2025   *10*

NAME⋆   NEPTUN CODE⋆

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

1	2	3	4	5

YOUR ANSWERS:

Problem 1. What is the value of the expression `lst[dict1.get('muec',6)]` if `dict1 = { 'gibm':  3, 'muec':  4, 'oaqh':  0, 'acft':  5, 'qmul':  2, 'rcma':  1 }`, and `lst = [9, 19, 8, 16, 2, 15, 3]`.

1 2

Problem 2. Suppose that the function `f` is defined as follows:

```
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(3, 0, 13, 16, 9, b=3)`?

2 15

Problem 3. Suppose that the function `f` is defined as follows:

```
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[16, 14, 10], [2, 0, 20], [15, 8], [8, 18, 5]])[4]`?

3 0

Problem 4. Suppose that the function `f` is defined as follows:

```
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x + 5, lambda x :  x - 3, lambda x :  x * 4], 5)`?

4 28

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```
x, y, z = 5, 4, 7

def f(x):
    x += 6
    if False: y = 4
    try:
        y += 6
    except:
```

```
    y = 5
    return x + y + z
```
What is the value of `f(4)+x`?

5 27

Informatics 2   midterm 2   Spring 2025

NAME⋆   NEPTUN CODE⋆ ⟦ | | | | | ⟧

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

1	2	3	4	5
YOUR ANSWERS:

Problem 1. What is the value of the expression `lst[dict1.get('uhip',5)]` if `dict1 = { 'urqf':  4, 'utqk':  3, 'vqpo':  2, 'jvuc':  1, 'jnjq':  0 }`, and `lst = [1, 10, 9, 6, 2, 11]`.

1 11

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(3, 20, 10, 7, 16)`?

2 10

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[16, 9, 17], [12, 5, 3], [11, 20]])[7]`?

3 20

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x // 2, lambda x :  x * 4, lambda x :  x - 5], 4)`?

4 3

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 3, 3, 4

def f(x):
    x += 6
    if False: y = 4
    try:
        y += 6
    except:
```

```
    y = 4
return x + y + z
```

What is the value of `f(6)+x`?

5 23

Name* Neptun code* ☐☐☐☐☐☐

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

1	2	3	4	5
Your answers:

Problem 1. What is the value of the expression `lst[dict1.get('ufhi',1)]` if `dict1 = { 'jcaq':  0, 'ufhi':  4, 'xunl':  3, 'rirc':  5, 'snpm':  6, 'lyzm':  2 }`, and `lst = [5, 15, 10, 19, 0, 9, 6]`.

1 0

Problem 2. Suppose that the function f is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(4, 6, 13, 11, 6, 15)`?

2 12

Problem 3. Suppose that the function f is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[20, 16], [20, 16, 9], [2, 7, 9]])[3]`?

3 16

Problem 4. Suppose that the function f is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x + 3, lambda x :  x // 4, lambda x :  x - 5], 2)`?

4 -4

Problem 5. Suppose that the function f and the variables x, y and z are defined as follows:

```python
x, y, z = 5, 5, 5

def f(x):
    x += 6
    if False: y = 5
    try:
        y += 4
    except:
```

```
    y = 4
return x + y + z
```

What is the value of `f(6)+x`?

5 26

Informatics 2   midterm 2   Spring 2025

NAME*   NEPTUN CODE*

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

1	2	3	4	5
YOUR ANSWERS:				

Problem 1. What is the value of the expression `lst[dict1.get('vlwf',0)]` if `dict1 = { 'hmxs':  3, 'auzi':  4, 'vlwf':  2, 'ajvc':  5, 'ladn':  1 }`, and `lst = [19, 15, 12, 10, 9, 6]`.

1 12

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(15, 4, 16, 13, 2)`?

2 10

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[3, 12], [16, 2, 13], [0, 13], [19, 18]])[6]`?

3 13

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x * 6, lambda x :  x - 3, lambda x :  x // 2], 5)`?

4 13

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 2, 3, 4

def f(x):
    x += 4
    if False: y = 5
    try:
        y += 7
    except:
```

```
    y = 5
    return x + y + z
```
What is the value of `f(2)+x`?

5 17

Name⋆   Neptun code⋆

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

1	2	3	4	5

Your answers:

Problem 1. What is the value of the expression `lst[dict1.get('axih',4)]` if `dict1 = { 'hexd':  3, 'vxrc':  1, 'snba':  2, 'cghq':  0 }`, and `lst = [5, 13, 10, 8, 4]`.

1 4

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(10, 3, 2, 12)`?

2 8

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[1, 14, 17], [12, 2], [20, 19, 11], [2, 1]])[5]`?

3 20

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x - 2, lambda x :  x // 5, lambda x :  x * 4], 5)`?

4 0

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 3, 3, 5

def f(x):
    x += 5
    if False: y = 1
    try:
        y += 4
    except:
```

```
    y = 3
    return x + y + z
```
What is the value of `f(4)+x`?

5 20

NAME*   NEPTUN CODE*

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

YOUR ANSWERS:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('npic',4)]` if `dict1 = { 'jkac':  3, 'padj':  1, 'zdjx':  5, 'ubtc':  0, 'eizx':  2, 'egyw':  6 }`, and `lst = [10, 3, 13, 2, 0, 12, 5]`.

1 0

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(12, 16, 17, 20, 19)`?

2 10

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[11, 6, 4], [7, 15], [9, 6, 13]])[5]`?

3 9

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x * 6, lambda x :  x // 2, lambda x :  x + 5], 2)?`

4 11

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 5, 2, 7

def f(x):
    x += 7
    if False: y = 3
    try:
        y += 7
    except:
```

```python
        y = 4
    return x + y + z
```

What is the value of `f(4)+x`?

5 27

Name⋆   Neptun code⋆ | | | | | | |

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

Your answers:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('jzqg',0)]` if
`dict1 = { 'jzqg':  1, 'wynf':  3, 'ezvd':  5, 'puhg':  4, 'yqrq':  2, 'epga':  6 }`, and `lst = [7, 8, 18, 0, 9, 10, 2]`.

1 8

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(20, 13, 5, 6, 12)`?

2 10

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[3, 9, 18], [18, 15, 3], [7, 4]])[4]`?

3 15

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x * 5, lambda x :  x - 2, lambda x :  x + 4], 5)`?

4 27

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 4, 4, 3

def f(x):
    x += 7
    if False: y = 4
    try:
        y += 6
    except:
```

```
    y = 5
  return x + y + z
```
What is the value of `f(5)+x`?

5 24

Name*   Neptun code* [ ][ ][ ][ ][ ][ ]

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

Your answers:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('qrfh',4)]` if `dict1 = { 'hrim':  2, 'roxw':  0, 'rquk':  3, 'svlm':  5, 'imwa':  1 }`, and `lst = [11, 9, 19, 14, 6, 12]`.

1 6

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(14, 5, 15, b=3)`?

2 9

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[5, 17], [0, 13, 6], [3, 15, 17]])[3]`?

3 13

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x - 2, lambda x :  x + 6, lambda x :  x * 5], 2)`?

4 30

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 4, 2, 6

def f(x):
    x += 7
    if False: y = 5
    try:
        y += 7
    except:
```

```python
    y = 4
    return x + y + z
```

What is the value of `f(2)+x`?

5 23

Informatics 2   midterm 2   Spring 2025

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YOUR ANSWERS:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('tcrk',3)]` if `dict1 = { 'pmho':  2, 'ksxm':  4, 'gxgb':  1, 'pzro':  0, 'tcrk':  5 }`, and `lst = [8, 19, 14, 1, 12, 10]`.

1 10

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(11, 8, 0, b=3)`?

2 9

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[12, 7], [6, 14], [18, 5, 14]])[3]`?

3 14

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x + 5, lambda x :  x - 6, lambda x :  x // 3], 4)`?

4 1

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 4, 5, 6

def f(x):
    x += 6
    if False: y = 1
    try:
        y += 5
    except:
```

```
    y = 5
return x + y + z
```

What is the value of `f(6)+x`?

5 27

NAME*   NEPTUN CODE*

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

1	2	3	4	5
YOUR ANSWERS:

Problem 1. What is the value of the expression `lst[dict1.get('hqkp',4)]` if `dict1 = { 'hqkp':  2, 'jnum':  1, 'axfq':  3, 'tlmm':  0 }`, and `lst = [14, 19, 0, 12, 1]`.

1 0

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(14, 16, 1, 14, 17, b=5)`?

2 25

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[9, 11], [11, 20, 19], [0, 15, 5], [1, 13]])[6]`?

3 15

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x + 5, lambda x :  x // 3, lambda x :  x * 6], 2)`?

4 12

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 1, 2, 5

def f(x):
    x += 5
    if False: y = 5
    try:
        y += 4
    except:
```

```
        y = 3
    return x + y + z
```

What is the value of `f(3)+x`?

5 17

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1	2	3	4	5

YOUR ANSWERS:

Problem 1. What is the value of the expression `lst[dict1.get('srel',4)]` if
`dict1 = { 'tpus':  3, 'ctap':  5, 'irhg':  0, 'wprr':  1, 'pmue':  2 }`,
and `lst = [0, 8, 15, 12, 13, 6]`.

1 13

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(4, 11, 3, 1, 4, 15)`?

2 12

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[13, 16, 12], [17, 18, 13], [10, 0], [19, 5, 10]])[10]`?

3 10

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x // 6, lambda x :  x - 4, lambda x :  x * 2], 2)`?

4 -8

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 4, 5, 3

def f(x):
    x += 5
    if False: y = 2
    try:
        y += 3
    except:
```

```
    y = 4
    return x + y + z
```

What is the value of `f(5)+x`?

5 21

Informatics 2   midterm 2   Spring 2025

NAME⋆   NEPTUN CODE⋆

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

YOUR ANSWERS:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('jsei',4)]` if `dict1 = { 'hzpo': 6, 'kbzc': 0, 'vfem': 2, 'bhuz': 1, 'anzx': 5, 'fejt': 3 }`, and `lst = [11, 12, 2, 16, 3, 0, 14]`.

1 3

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(2, 5, 12)`?

2 6

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[17, 5, 10], [14, 2, 16], [0, 14, 8], [3, 7]])[8]`?

3 8

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x // 2, lambda x :  x - 6, lambda x :  x + 5], 2)`?

4 0

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 4, 2, 3

def f(x):
    x += 7
    if False: y = 2
    try:
        y += 4
    except:
```

```
    y = 3
    return x + y + z
```

What is the value of `f(2)+x`?

5 19

Informatics 2   midterm 2   Spring 2025

2*

Name*   Neptun code*

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

Your answers:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('pyib',1)]` if `dict1 = { 'aevs': 4, 'pyxl': 2, 'kyai': 0, 'pzgx': 3 }`, and `lst = [10, 2, 11, 13, 8]`.

1 2

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(3, 6, 20, 9, 3, 1, b=5)`?

2 30

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[6, 16, 18], [20, 11], [19, 13], [11, 18, 3]])[3]`?

3 20

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x + 4, lambda x :  x // 3, lambda x :  x * 5], 5)`?

4 15

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 2, 3, 7

def f(x):
    x += 4
    if False: y = 2
    try:
        y += 7
    except:
```

```
        y = 5
    return x + y + z
```

What is the value of `f(2)+x`?

5 20

Name⋆   Neptun code⋆ ☐ ☐ ☐ ☐ ☐ ☐

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

Your answers:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('fvak',1)]` if `dict1 = { 'fvak':  4, 'qotc':  3, 'krtw':  6, 'bxmf':  5, 'woxn':  0, 'ffhb':  7, 'deqs':  2 }`, and `lst = [0, 7, 13, 3, 19, 1, 12, 9]`.

1 19

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(6, 10, 0, 2, b=3)`?

2 12

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[17, 6, 13], [12, 6], [18, 4]])[3]`?

3 12

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x // 6, lambda x :  x * 3, lambda x :  x + 4], 2)`?

4 4

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 1, 5, 4

def f(x):
    x += 4
    if False: y = 1
    try:
        y += 7
    except:
```

```
        y = 6
    return x + y + z
```
What is the value of `f(6)+x`?

5 21

Informatics 2   midterm 2   Spring 2025 *4*

NAME*   NEPTUN CODE* | | | | | | |

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

YOUR ANSWERS:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('fkgb',6)]` if `dict1 = { 'lema': 1, 'lpiu': 0, 'zowt': 3, 'hrav': 7, 'teol': 2, 'fkgb': 5, 'sgcq': 4 }`, and `lst = [11, 19, 12, 9, 3, 4, 15, 5]`.

1 4

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(11, 16, 18, 16, 5)`?

2 10

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[16, 0], [13, 1], [6, 19, 3], [5, 2]])[7]`?

3 5

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x - 4, lambda x :  x // 5, lambda x :  x + 6], 2)`?

4 5

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 5, 5, 5

def f(x):
    x += 4
    if False: y = 4
    try:
        y += 5
    except:
```

```
    y = 5
  return x + y + z
```

What is the value of `f(4)+x`?

5 23

Name⋆   Neptun code⋆ [ ][ ][ ][ ][ ][ ]

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

Your answers:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('zvew',2)]` if
`dict1 = { 'fhab':  1, 'zvew':  5, 'lhdk':  4, 'owli':  3, 'milh':  0 }`,
and `lst = [14, 18, 11, 19, 10, 16]`.

1 16

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(12, 2, 15, 0, 6, 4, b=5)`?

2 30

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[16, 15, 4], [3, 12], [2, 14]])[6]`?

3 14

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x - 3, lambda x :  x + 6, lambda x :  x // 4], 2)`?

4 1

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 2, 4, 5

def f(x):
    x += 4
    if False: y = 4
    try:
        y += 5
    except:
```

```
    y = 4
return x + y + z
```

What is the value of `f(5)+x`?

5 20

NAME*   NEPTUN CODE* [ ][ ][ ][ ][ ][ ]

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

1	2	3	4	5
YOUR ANSWERS:

Problem 1. What is the value of the expression `lst[dict1.get('dvok',1)]` if `dict1 = { 'hgpu': 5, 'pfpj': 2, 'oigi': 4, 'wdkq': 3, 'vyzf': 0 }`, and `lst = [10, 12, 7, 18, 11, 9]`.

1 12

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(8, 19, 9, 17, 3)`?

2 10

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[20, 5, 6], [20, 13], [13, 16]])[5]`?

3 13

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x // 6, lambda x :  x - 4, lambda x :  x * 5], 2)`?

4 -20

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 4, 3, 6

def f(x):
    x += 4
    if False: y = 2
    try:
        y += 6
    except:
```

```
    y = 4
  return x + y + z
```

What is the value of `f(2)+x`?

5 20

Name⋆   Neptun code⋆ [ ][ ][ ][ ][ ][ ]

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

Your answers:

1	2	3	4	5

Problem 1. What is the value of the expression `lst[dict1.get('nwnu',5)]` if `dict1 = { 'jpgz':  0, 'pzqf':  3, 'qqhz':  4, 'aals':  2, 'ncez':  1 }`, and `lst = [2, 3, 0, 14, 5, 8]`.

1 8

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(12, 15, 4, 5, 1, b=4)`?

2 20

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[6, 18], [3, 17], [17, 12, 6]])[4]`?

3 17

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x + 4, lambda x :  x - 5, lambda x :  x * 6], 5)`?

4 24

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 3, 5, 6

def f(x):
    x += 5
    if False: y = 2
    try:
        y += 3
    except:
```

```
    y = 4
    return x + y + z
```
What is the value of `f(2)+x`?

5 20

Informatics 2   midterm 2   Spring 2025

8

NAME*   NEPTUN CODE*

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

1	2	3	4	5

YOUR ANSWERS:

Problem 1. What is the value of the expression `lst[dict1.get('gfvv',2)]` if `dict1 = { 'gfvv':  5, 'cwye':  4, 'zwjx':  1, 'yaoo':  0, 'xuda':  3, 'qfpx':  7, 'ovjp':  6 }`, and `lst = [6, 9, 12, 2, 15, 5, 13, 14]`.

1 5

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(5, 18, 13, 10, 7, b=4)`?

2 20

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[10, 14, 2], [2, 10], [12, 17, 15]])[6]`?

3 17

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x * 4, lambda x :  x + 3, lambda x :  x // 2], 2)`?

4 5

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 3, 2, 6

def f(x):
    x += 6
    if False: y = 3
    try:
        y += 6
    except:
```

```
    y = 4
  return x + y + z
```

What is the value of `f(4)+x`?

5 23

NAME*   NEPTUN CODE*

You can write anything anywhere on this sheet or its back; it's only what you write in the boxes below with a pen that counts.

1	2	3	4	5

YOUR ANSWERS:

Problem 1. What is the value of the expression `lst[dict1.get('vola',4)]` if `dict1 = { 'ccir': 2, 'kilm': 5, 'fhhp': 3, 'cxus': 1, 'uctn': 6, 'ynxb': 0, 'vola': 7 }`, and `lst = [4, 8, 17, 1, 5, 10, 0, 7]`.

1 7

Problem 2. Suppose that the function `f` is defined as follows:

```python
def f(*a, b=2):
    return len(a)*b
```

What is the value of `f(11, 18, 18, 13)`?

2 8

Problem 3. Suppose that the function `f` is defined as follows:

```python
def f(l):
    return [i for l1 in l for i in l1]
```

What is the value of
`f([[11, 0, 5], [5, 15, 11], [16, 7], [6, 15]])[3]`?

3 5

Problem 4. Suppose that the function `f` is defined as follows:

```python
def f(fns,x):
    y = x
    for fn in fns:
        y = fn(y)
    return y
```

What is the value of
`f([lambda x :  x - 5, lambda x :  x + 4, lambda x :  x // 2], 4)?`

4 1

Problem 5. Suppose that the function `f` and the variables `x`, `y` and `z` are defined as follows:

```python
x, y, z = 3, 2, 5

def f(x):
    x += 6
    if False: y = 5
    try:
        y += 6
    except:
```

```
        y = 4
    return x + y + z
```
What is the value of `f(4)+x`?

5 22