```
Test Case 1: Testing with 1 HP process
input.txt:
3
6
Α
ΗP
1
4
2
1
6
5
-1
Test Case 2: Testing with 1 LP process (without migration)
input.txt:
2
4
Α
LP
0
4
3
3
-1
Test Case 3: Testing with 1 LP process (with migration)
input.txt:
3
Α
LP
0
10
3
5
6
3
-1
```

```
Test Case 4: Testing with 1 HP and 1 LP process (without migration)
input.txt:
6
Α
ΗР
0
3
4
5
-1
В
LΡ
5
6
2
3
1
4
-1
Test Case 5: Testing with 1 HP and 1 LP process (with migration)
input.txt:
2
2
Α
ΗP
0
3
4
5
-1
В
LP
5
10
3
5
2
4
-1
```

Test Case 6: Testing with 1 HP and 2 LP process (without migration)

```
Input.txt:
3
6
Α
ΗP
0
3
4
5
-1
В
LP
5
6
2
3
1
4
-1
С
LP
7
4
3
8
1
4
```

-1

Test Case 7: Testing with 1 HP and 2 LP process (with migration)

Input.txt: Α ΗP -1 В LP -1 С LP

-1

Test Case 8: Testing with 2 HP and 3 LP process (with migration)

```
Input.txt:
2
3
Α
ΗP
0
3
4
5
-1
В
LP
5
6
2
3
1
4
-1
С
LP
7
10
3
8
1
4
-1
D
ΗP
10
5
1
2
-1
Ε
LP
14
3
5
7
1
4
-1
```

Test Case 9: Arbitrary Test

```
Input.txt:
2
3
Α
ΗP
0
3
4
5
-1
В
LP
5
6
2
3
1
4
-1
С
LP
7
10
3
8
1
4
-1
D
ΗP
30
5
5
6
-1
Ε
LP
14
3
5
7
1
4
```

-1