

OUTPUT SCREENSHOT:

CHALLENGE 1:

BRUTE FORCE:

```
D:\SZ-2025\NED\logic forge F X + ▾  
Enter number of steps: 5  
Total ways: 8  
-----  
Process exited after 14.05 seconds with return value 0  
Press any key to continue . . .
```

OPTIMIZED:

```
D:\SZ-2025\NED\logic forge F X + ▾  
Enter number of steps: 5  
Total ways: 8  
-----  
Process exited after 1.688 seconds with return value 0  
Press any key to continue . . . |
```

CHALLENGE 2:

BRUTE FORCE:

```
D:\SZ-2025\NED\logic forge F X + ▾  
True  
-----  
Process exited after 0.04191 seconds with return value 0  
Press any key to continue . . . |
```

OPTIMIZED:

```
D:\SZ-2025\NED\logic forge F X + ▾  
True  
-----  
Process exited after 0.05022 seconds with return value 0  
Press any key to continue . . . |
```

CHALLENGE 3:

BRUTE FORCE:

```
D:\SZ-2025\NED\logic forge F X + | v

Enter string: bbabcbcab
Longest Palindromic Subsequence Length: 7
-----
Process exited after 2.63 seconds with return value 0
Press any key to continue . . . |
```

OPTIMIZED:

```
D:\SZ-2025\NED\logic forge F X + | v

Enter string: bbabcbcab
Longest Palindromic Subsequence Length: 7
-----
Process exited after 17.19 seconds with return value 0
Press any key to continue . . . |
```

CHALLENGE 4:

BRUTE FORCE:

```
D:\SZ-2025\NED\logic forge F X + | v

Total ways: 4
-----
Process exited after 0.04659 seconds with return value 0
Press any key to continue . . . |
```

OPTIMIZED:

```
D:\SZ-2025\NED\logic forge F X + | v

Total ways: 4
-----
Process exited after 0.04975 seconds with return value 0
Press any key to continue . . . |
```

CHALLENGE 5:

BRUTE FORCE:

```
D:\SZ-2025\NED\logic forge F + ▾
Minimum bookings to cancel: 1
-----
Process exited after 0.04525 seconds with return value 0
Press any key to continue . . . |
```

OPTIMIZED:

```
D:\SZ-2025\NED\logic forge F + ▾
Minimum bookings to cancel: 1
-----
Process exited after 0.04932 seconds with return value 0
Press any key to continue . . . |
```

CHALLENGE 6:

BRUTE FORCE:

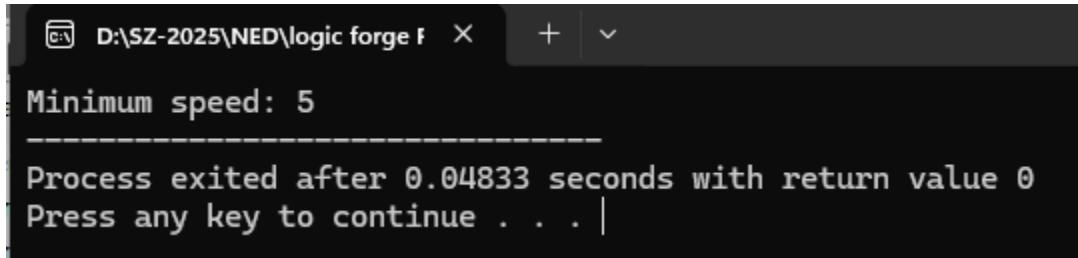
```
D:\SZ-2025\NED\logic forge F + ▾
Jobs Completed: 2, Max Profit: 60
-----
Process exited after 0.05376 seconds with return value 0
Press any key to continue . . . |
```

OPTIMIZED:

```
D:\SZ-2025\NED\logic forge F + ▾
Jobs Completed: 2, Max Profit: 60
-----
Process exited after 0.04463 seconds with return value 0
Press any key to continue . . . |
```

CHALLENGE 7:

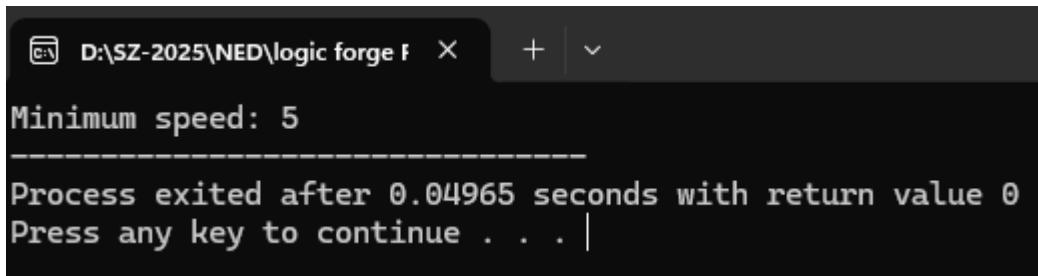
BRUTE FORCE:



D:\SZ-2025\NED\logic forge F X + |

```
Minimum speed: 5
-----
Process exited after 0.04833 seconds with return value 0
Press any key to continue . . . |
```

OPTIMIZED:



D:\SZ-2025\NED\logic forge F X + |

```
Minimum speed: 5
-----
Process exited after 0.04965 seconds with return value 0
Press any key to continue . . . |
```