Started on	Monday, 22 September 2025, 11:26 PM
State	Finished
Completed on	Tuesday, 23 September 2025, 12:48 AM
Time taken	1 hour 22 mins
Marks	500.00/500.00
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 100.00 out of 100.00

Time limit	1 s
Memory limit	64 MB

Nama File: ListSplit.hs

Header: module ListSplit where

Lengkapi realisasi dari file berikut.

Haskell

ListSplit.hs

Score: 100

Blackbox

Score: 100

Verdict: Accepted

Evaluator: Exact

No	Score	Verdict	Description
1	10	Accepted	0.00 sec, 2.94 MB
2	10	Accepted	0.00 sec, 2.93 MB
3	10	Accepted	0.00 sec, 2.91 MB
4	10	Accepted	0.00 sec, 2.81 MB
5	10	Accepted	0.00 sec, 2.84 MB
6	10	Accepted	0.00 sec, 2.93 MB
7	10	Accepted	0.00 sec, 2.93 MB
8	10	Accepted	0.00 sec, 2.84 MB
9	10	Accepted	0.00 sec, 2.94 MB
10	10	Accepted	0.00 sec, 2.92 MB

Question **2**

Correct

Mark 100.00 out of 100.00

Time limit	1 s
Memory limit	64 MB

Nama File: Power.hs

Header: module Power where

Lengkapi realisasi dari file berikut.

Haskell

Power.hs

Score: 100

Blackbox

Verdict: Accepted

Evaluator: Exact

No	Score	Verdict	Description
1	7	Accepted	0.00 sec, 2.93 MB
2	7	Accepted	0.00 sec, 2.84 MB
3	7	Accepted	0.00 sec, 2.93 MB
4	7	Accepted	0.00 sec, 2.95 MB
5	7	Accepted	0.00 sec, 2.95 MB
6	7	Accepted	0.00 sec, 2.84 MB
7	7	Accepted	0.00 sec, 2.94 MB
8	7	Accepted	0.00 sec, 2.92 MB
9	7	Accepted	0.00 sec, 2.81 MB
10	7	Accepted	0.00 sec, 2.93 MB
11	7	Accepted	0.00 sec, 2.90 MB
12	7	Accepted	0.00 sec, 2.95 MB
13	7	Accepted	0.00 sec, 2.93 MB
14	9	Accepted	0.00 sec, 2.96 MB

Question **3**

Correct

Mark 100.00 out of 100.00

Time limit	1 s
Memory limit	64 MB

Nama File: ThreeTree.hs

Header: module ThreeTree where

Di sebuah desa, tumbuh sebuah pohon magis bernama ThreeTree. Dengan memberikan persembahan berupa biji apel, pohon ini dapat mengabulkan permintaan para penduduk desa. Jumlah biji apel yang diberikan pada satu kali persembahan harus merupakan kelipatan 3. Jika tidak, pohon ini malah akan memberikan kutukan kepada para penduduk desa.

Karena banyak penduduk desa yang ingin memberikan persembahan, tugasmu adalah menyaring persembahan tersebut dengan hanya menyisakan jumlah biji apel yang merupakan **kelipatan 3**. Untuk itu, kamu perlu mengimplementasikan fungsi **threeTree** yang menerima sebuah list bilangan bulat **L** dan mengembalikan list baru yang hanya berisi bilangan-bilangan kelipatan 3 dari **L**.

Spesifikasi Fungsi:

```
threeTree :: [Int] -> [Int]
```

Contoh aplikasi fungsi:

```
> threeTree [1, 2, 3, 4, 5, 6]
[3, 6]
```

Keterangan:

- Proses filter tidak mengubah urutan dari list.

Haskell

ThreeTree.hs

Score: 100

Blackbox

Score: 100

Verdict: Accepted

Evaluator: Exact

No	Score	Verdict	Description
1	6	Accepted	0.00 sec, 4.05 MB
2	6	Accepted	0.00 sec, 3.38 MB
3	6	Accepted	0.00 sec, 3.48 MB
4	6	Accepted	0.00 sec, 3.37 MB
5	6	Accepted	0.00 sec, 3.73 MB
6	6	Accepted	0.00 sec, 3.95 MB
7	6	Accepted	0.00 sec, 3.46 MB
8	6	Accepted	0.00 sec, 3.43 MB
9	6	Accepted	0.00 sec, 3.45 MB
10	6	Accepted	0.00 sec, 3.54 MB
11	6	Accepted	0.00 sec, 3.41 MB
12	6	Accepted	0.00 sec, 3.45 MB

No	Score	Verdict	Description
13	6	Accepted	0.00 sec, 3.65 MB
14	6	Accepted	0.00 sec, 2.99 MB
15	16	Accepted	0.00 sec, 3.55 MB

Question **4**

Correct

Mark 100.00 out of 100.00

Time limit	1 s
Memory limit	64 MB

Nama File: RunLengthEncoding.hs

Header: module RunLengthEncoding where

Anda diminta mengimplementasikan fungsi **runLengthEncoding** yang menerima sebuah string dan mengembalikan list pasangan `(elemen, jumlah)` dimana `jumlah` adalah banyak elemen yang sama dan berurutan muncul.

Spesifikasi Fungsi:

```
runLengthEncoding :: String -> [(Char, Int)]
```

Contoh aplikasi fungsi:

```
> runLengthEncoding "aaaaabbc"
[('a',5),('b',2),('c',1)]

> runLengthEncoding ""
[]

> runLengthEncoding "a"
[('a',1)]
```

Hint:

- Perhatikan bahwa `String` merupakan alias dari list of `Char`.
- Anda diperbolehkan untuk membuat fungsi helper.

Haskell

RunLengthEncoding.hs

Score: 100

Blackbox

Score: 100

Verdict: Accepted

Evaluator: Exact

No	Score	Verdict	Description
1	6	Accepted	0.00 sec, 3.36 MB
2	6	Accepted	0.00 sec, 3.50 MB
3	6	Accepted	0.00 sec, 3.44 MB
4	6	Accepted	0.00 sec, 3.53 MB
5	6	Accepted	0.00 sec, 3.46 MB
6	6	Accepted	0.00 sec, 3.57 MB
7	6	Accepted	0.00 sec, 3.43 MB
8	6	Accepted	0.00 sec, 3.38 MB
9	6	Accepted	0.00 sec, 3.59 MB
10	6	Accepted	0.00 sec, 3.46 MB
11	6	Accepted	0.00 sec, 3.40 MB

No	Score	Verdict	Description
12	6	Accepted	0.00 sec, 3.38 MB
13	6	Accepted	0.00 sec, 3.48 MB
14	6	Accepted	0.00 sec, 3.25 MB
15	16	Accepted	0.00 sec, 3.54 MB

Question **5**

Correct

Mark 100.00 out of 100.00

Time limit	1 s
Memory limit	64 MB

Nama File: SecondLargest.hs

Header: module SecondLargest where

Anda diminta mengimplementasikan fungsi **secondLargest** yang menerima masukan berupa sebuah list bilangan bulat dan mengembalikan elemen terbesar kedua. List dipastikan memiliki setidaknya 2 elemen dan elemennya unik.

Spesifikasi Fungsi:

```
secondLargest :: [Int] -> Int
```

Contoh aplikasi fungsi:

```
> secondLargest [3, 5, 1, 4]
4
```

Hint:

- Anda diperbolehkan membuat fungsi helper.

Haskell

SecondLargest.hs

Score: 100

Blackbox

Score: 100

Verdict: Accepted

Evaluator: Exact

No	Score	Verdict	Description
1	6	Accepted	0.00 sec, 3.57 MB
2	6	Accepted	0.00 sec, 3.75 MB
3	6	Accepted	0.00 sec, 3.78 MB
4	6	Accepted	0.00 sec, 3.43 MB
5	6	Accepted	0.00 sec, 3.73 MB
6	6	Accepted	0.00 sec, 3.82 MB
7	6	Accepted	0.00 sec, 3.92 MB
8	6	Accepted	0.00 sec, 3.47 MB
9	6	Accepted	0.00 sec, 3.80 MB
10	6	Accepted	0.00 sec, 3.60 MB
11	6	Accepted	0.00 sec, 3.50 MB
12	6	Accepted	0.00 sec, 3.90 MB
13	6	Accepted	0.00 sec, 3.55 MB
14	6	Accepted	0.00 sec, 3.80 MB
15	16	Accepted	0.00 sec, 3.53 MB

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