

Pensieve header: Solution to Itai's 180905 riddle.

```
In[*]:= Total[Last /@ FactorInteger [#]] & /@ (6 × 1001 + {7, 11, 13, 7 × 11, 7 × 13, 11 × 13})
```

```
Out[*]:= {2, 2, 2, 3, 3, 3}
```

```
In[*]:= FactorInteger[6 × 1001 + 7]
```

```
Out[*]:= {{7, 1}, {859, 1}}
```

```
In[*]:= Total[Last /@ FactorInteger [#]] & /@ (12 × 1001 + {7, 11, 13, 7 × 11, 7 × 13, 11 × 13})
```

```
Out[*]:= {3, 2, 4, 3, 4, 4}
```

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```
In[*]:= PrimeQ@Echo[7 × 11 + 11 × 13 + 13 × 7]
```

```
» 311
```

```
Out[*]:= True
```