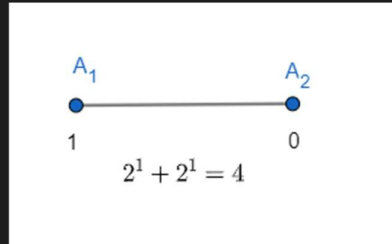


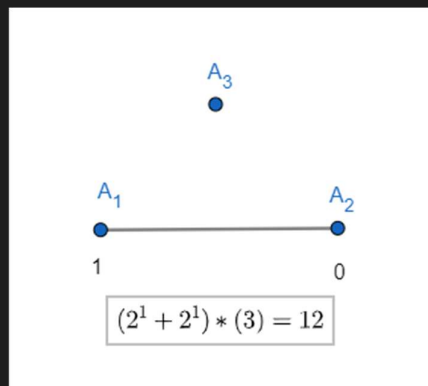
Input and output samples:

```
1
2 1
1 2
```



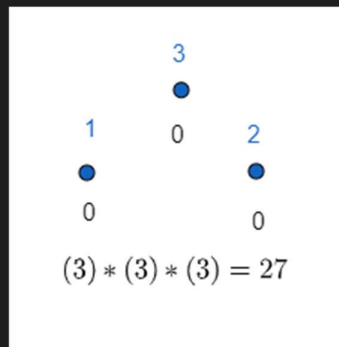
```
4
end
```

```
1
3 1
1 2
```



```
12
end
```

```
1
3 0
```

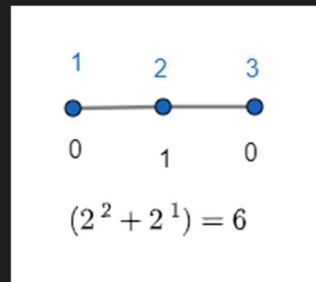


```
27
end
```

```

1
3 2
1 2
2 3

```



```

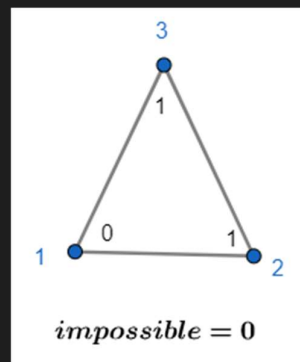
6
end

```

```

1
3 3
1 2
2 3
1 3

```



```

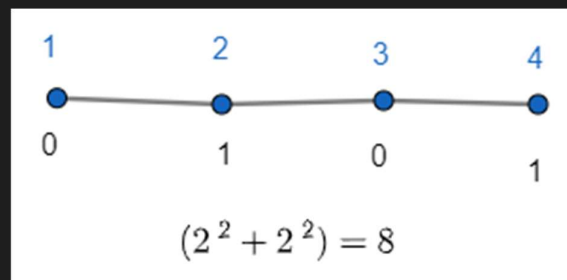
0
end

```

```

1
4 3
1 2
2 3
3 4

```



```

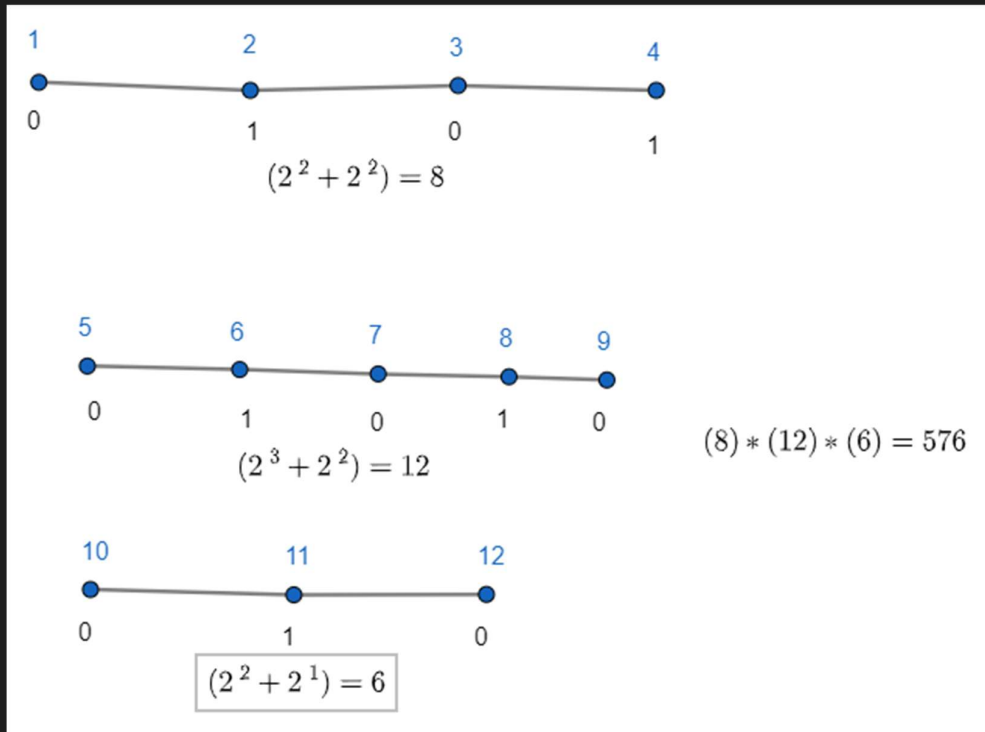
8
end

```

```

1
12 9
1 2
2 3
3 4
5 6
6 7
7 8
8 9
10 11
11 12

```



```

576
end

```

```

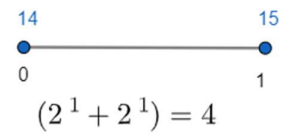
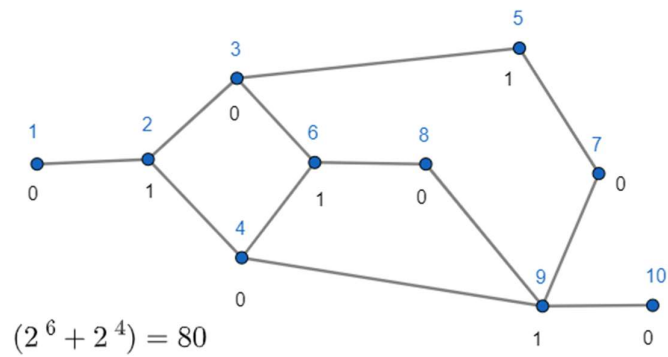
1
15 15
1 2
2 3
2 4
4 6
3 5
6 8
5 7
8 9
7 9
9 10
4 9
3 6

```

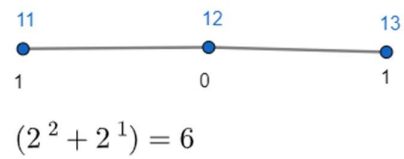
```

11 12
12 13
14 15

```



$$(80) * (4) * (6) = 1920$$



```

1920
end

```

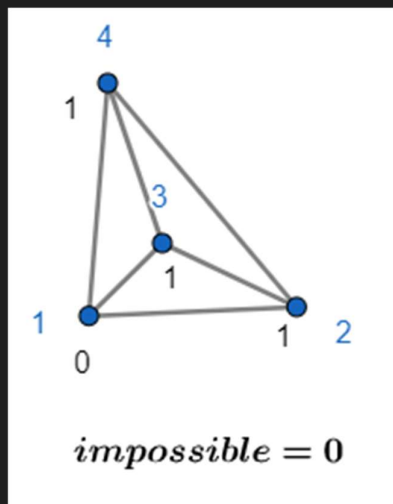
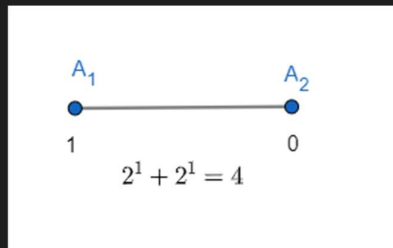
multiple test :

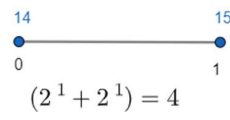
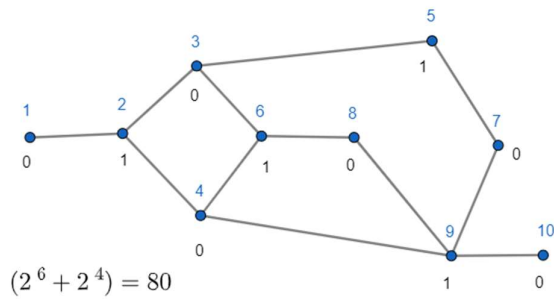
```

3
2 1 }
1 2 }
4 6 }
1 2 }
1 3 }
1 4 }
2 3 }
2 4 }
3 4 }
15 15
1 2
2 3

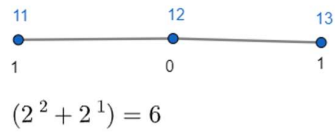
```

2 4
 4 6
 3 5
 6 8
 5 7
 8 9
 7 9
 9 10
 4 9
 3 6
 11 12
 12 13
 14 15





$$(80) * (4) * (6) = 1920$$



```
4
0
1920
end
```