GetIndexOfPauliString

```
SetDirectory @ NotebookDirectory[];
Import["../Link/QuESTlink.m"];
```

Doc

? GetIndexOfPauliString

```
Symbol

GetIndexOfPauliString[pauliString] returns the index of the given Pauli string
in the ordered basis of Pauli strings. The zero target is treated as least significant.
```

Correctness

```
GetIndexOfPauliString[Id4]
0
GetIndexOfPauliString[X0]
GetIndexOfPauliString[Y0]
GetIndexOfPauliString[Z0]
1
2
3
GetIndexOfPauliString[X1]
GetIndexOfPauliString[X1]
GetIndexOfPauliString[X1]
4
4
GetIndexOfPauliString[Z34] === 3 × 4<sup>34</sup>
True
GetIndexOfPauliString[Product[Zt, {t, 0, 34}]] === 4<sup>34+1</sup> - 1
True
ind = 1245194;
ind === GetIndexOfPauliString@GetPauliStringFromIndex[ind]
True
```

Errors

GetIndexOfPauliString[Plop₃]

••• GetIndexOfPauliString: Invalid arguments. See ?GetIndexOfPauliString

\$Failed

GetIndexOfPauliString[-1]

••• GetIndexOfPauliString: Invalid arguments. See ?GetIndexOfPauliString

\$Failed