The input array is: [1 2 4 6 8 10]

Number of columns in output matrix should be: 5

Vander matrix of the input array in decreasing order of powers:

[[1 1 1 1 1 1]
[16 8 4 2 1]
[256 64 16 4 1]
[1296 216 36 6 1]
[4996 512 64 8 1]
[10000 1000 100 10 1]]

Vander matrix of the input array in increasing order of powers:

[[1 1 1 1 1]

```
 \begin{bmatrix} \begin{bmatrix} & 1 & & 1 & & 1 & & 1 & & 1 \\ 1 & 2 & & 4 & & 8 & & 16 \end{bmatrix} \\ \begin{bmatrix} & 1 & & 4 & & 16 & & 64 & 256 \end{bmatrix} \\ \begin{bmatrix} & 1 & & 6 & & 36 & 216 & 1296 \end{bmatrix} \\ \begin{bmatrix} & 1 & & 8 & & 64 & 512 & 4096 \end{bmatrix} \\ \begin{bmatrix} & 1 & & 100 & 1000 & 10000 & 10000 \end{bmatrix} \end{bmatrix}
```

In [ ]: