Template for English Article

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1 Linear Algebra

Theorem 1.1 (Rank-Nullity). The dimension a of V is equal to ... aThe dimension is ... Proof. The rank aAccording to ... a

¹The rank is ...

2 codes

```
Algorithm 1 PARTITION(A, p, r)
Input: \mathbf{x}, \mathbf{y} \in \mathbb{R}^n
Output: \mathbf{z} = \mathbf{x}\mathbf{y}^T \in \mathbb{R}^{n \times n}

1: i = p
2: for j = p to r do
3: if A[j] <= 0 then
4: swap(A[i], A[j])
5: i = i + 1
6: end if
7: end for
```

```
int main() {
printf("hello, world");
return 0;
}
```

Appendix A Multilinear Algebra

References

[1] Zhang,