```python
class FiniteSetOperations2(ABC):
    @abstractmethod
    def product(self, s1: FiniteSet, s2: FiniteSet) -> FiniteSet:
        ...

    @abstractmethod
    def projections(
        self,
    ) -> Tuple[Callable[[Element], Element], Callable[[Element], Element]]:
        """ Returns the two projection functions. """

    @abstractmethod
    def disjoint_union(self, s1: FiniteSet, s2: FiniteSet) -> FiniteSet:
        ...

    @abstractmethod
    def injections(
        self,
    ) -> Tuple[Callable[[Element], Element], Callable[[Element], Element]]:
        """ Returns the two injection functions. """
```