```
Max-Flow
    Initially $f(e) = 0$ for all $e$ in $G$
    While there is an $s$-$t$ path in the residual graph $G_f$
        Let $P$ be a simple $s$-$t$ path in $G_f$
        $f' = \text{augment}(f, P)$
        Update $f$ to be $f'$
        Update the residual graph $G_f$ to be $G_{f'}$
    Endwhile
    Return $f$
```