```python
def potential(n):
    size = 1
    total = 0
    dcost = 0
    icost = 0
    bank = 0
    phi = 0
    ci = 0
    phi_prev = 0
    print("Elements\tDoubling Copying Cost\tInsertion Cost\tTotal Cost\t\tBank\t\tSize\t\tPhi\t\tCi")
    for i in range(1, n + 1):
        icost = 1
        if i > size:
            size *= 2
            dcost = i - 1
        total = icost + dcost
        phi = 2 * i - size
        ci = total + phi - phi_prev
        bank += (3 - total)
        print(i, "\t\t\t\t", dcost, "\t\t", icost, "\t", total, "\t\t\t", bank, "\t\t", size, "\t\t", phi, "\t\t", ci)
        icost = 0
        dcost = 0
        phi_prev = phi

potential(10)
```
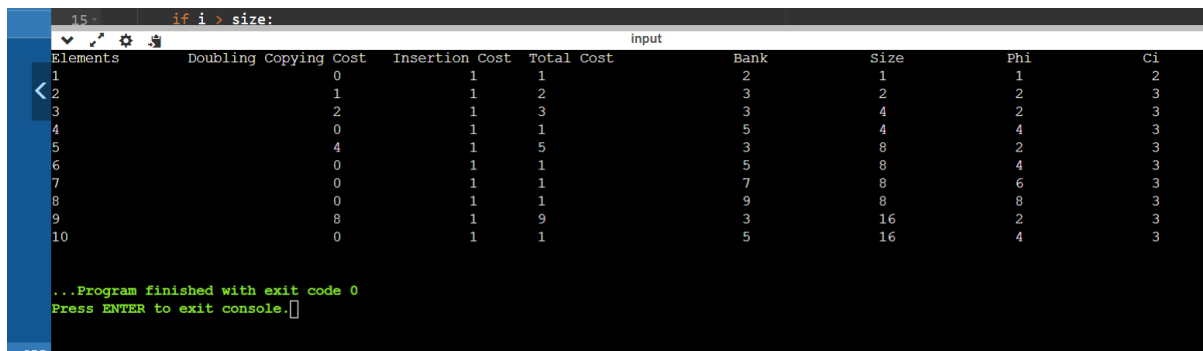
Output :



| Elements | Doubling Copying Cost | Insertion Cost | Total Cost | Bank | Size | Phi | Ci |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 2 | 1 | 1 | 2 |
| 2 | 1 | 1 | 2 | 3 | 2 | 2 | 3 |
| 3 | 2 | 1 | 3 | 3 | 4 | 2 | 3 |
| 4 | 0 | 1 | 1 | 5 | 4 | 4 | 3 |
| 5 | 4 | 1 | 5 | 3 | 8 | 2 | 3 |
| 6 | 0 | 1 | 1 | 5 | 8 | 4 | 3 |
| 7 | 0 | 1 | 1 | 7 | 8 | 6 | 3 |
| 8 | 0 | 1 | 1 | 9 | 8 | 8 | 3 |
| 9 | 8 | 1 | 9 | 3 | 16 | 2 | 3 |
| 10 | 0 | 1 | 1 | 5 | 16 | 4 | 3 |

...Program finished with exit code 0
Press ENTER to exit console.