

```
# Given inputs
requirements = {"easy": 200, "nominal": 200, "difficult": 50}
interfaces = {"easy": 2, "difficult": 3}
algorithms = {"difficult": 5}

# Complexity weightings
complexity_weights = {"easy": 0.5, "nominal": 1, "difficult": 1.5}

# Calculate equivalent size
size = (requirements["easy"] * complexity_weights["easy"] +
        requirements["nominal"] * complexity_weights["nominal"] +
        requirements["difficult"] * complexity_weights["difficult"] +
        interfaces["easy"] * complexity_weights["easy"] +
        interfaces["difficult"] * complexity_weights["difficult"] +
        algorithms["difficult"] * complexity_weights["difficult"])

# Cost factors for this project
cost_factors = {
    "Technology Risk": "Low",
    "Process Capability": "Low"
}

# Estimate effort using COSYSMO model
effort = cosysmo(size, cost_factors)
effort
```

Result

1131.8223839999998

Using the provided COSYSMO function and the given project inputs, the estimated systems engineering effort for the project is approximately 1131.82 person-months. [\[>-\]](#)