Resourse Constrained

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| --- | --- | --- |
| 5 | 1.1.2 | 8 |
| 16 | 2P | 16 |
| 21 | 3 | 24 |

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| --- | --- | --- |
| 11 | 1.2.1 | 13 |
| 11 | 1P | 11 |
| 22 | 2 | 24 |

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| --- | --- | --- |
| 16 | 1.3.1 | 18 |
| 6 | 2P | 6 |
| 22 | 2 | 24 |

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| --- | --- | --- |
| 0 | 1.1.1 | 5 |
| 0 | 2P | 0 |
| 0 | 5 | 5 |

|  |  |  |
| --- | --- | --- |
| 5 | 1.1.3 | 11 |
| 0 | 2P | 0 |
| 5 | 6 | 11 |

|  |  |  |
| --- | --- | --- |
| 11 | 1.2.2 | 16 |
| 0 | 2P | 0 |
| 11 | 5 | 16 |

|  |  |  |
| --- | --- | --- |
| 24 | 1.3.4 | 31 |
| 0 | 1P | 0 |
| 24 | 7 | 31 |

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| --- | --- | --- |
| 16 | 1.3.2 | 22 |
| 2 | 1P | 2 |
| 18 | 6 | 24 |

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| --- | --- | --- |
| 16 | 1.3.3 | 24 |
| 0 | 2P | 0 |
| 16 | 8 | 24 |

|  |  |  |
| --- | --- | --- |
| 11 | 1.2.3 | 18 |
| 6 | 1P | 6 |
| 17 | 7 | 24 |

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| --- | --- | --- |
| 5 | 1.1.4 | 15 |
| 9 | 1P | 9 |
| 14 | 10 | 24 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | RES | DUR | ES | LF | SL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 1.1.1 | 2P | 5 | 0 | 5 | 0 | 2 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.2 | 2P | 3 | 5 | 24 | 16 |  |  |  |  |  | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.3 | 2P | 6 | 5 | 11 | 0 |  |  |  |  |  | 2 | 2 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.4 | 1P | 10 | 5 | 24 | 9 |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2.1 | 1P | 2 | 11 | 24 | 11 |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2.2 | 2P | 5 | 11 | 16 | 0 |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2.3 | 1P | 7 | 11 | 24 | 6 |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.3.1 | 2P | 2 | 16 | 24 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.3.2 | 1P | 6 | 16 | 24 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |
| 1.3.3 | 2P | 8 | 16 | 24 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |
| 1.3.4 | 1P | 7 | 24 | 31 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total Resource Load | | | | | | 2P | 2P | 2P | 2P | 2P | 5P | 5P | 5P | 3P | 3P | 3P | 5P | 5P | 4P | 4P | 3P | 6P | 6P | 3P | 3P | 3P | 3P | 2P | 2P | 1P | 1P | 1P | 1P | 1P | 1P | 1P |
| Resource Available | | | | | | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P | 3P |

Budget Baseline

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Budget** | **0** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 1.1.1 | **50** | 10 | 10 | 10 | 10 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.2 | **30** |  |  |  |  |  | 10 | 10 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.3 | **42** |  |  |  |  |  | 7 | 7 | 7 | 7 | 7 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.4 | **60** |  |  |  |  |  | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2.1 | **10** |  |  |  |  |  |  |  |  |  |  |  | 5 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2.2 | **45** |  |  |  |  |  |  |  |  |  |  |  | 9 | 9 | 9 | 9 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2.3 | **35** |  |  |  |  |  |  |  |  |  |  |  | 5 | 5 | 5 | 5 | 5 | 5 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.3.1 | **24** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.3.2 | **24** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 | 4 | 4 | 4 | 4 | 4 |  |  |  |  |  |  |  |  |  |
| 1.3.3 | **80** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |  |  |  |  |  |  |  |
| 1.3.4 | **14** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| **Total** | **414** | 10 | 10 | 10 | 10 | 10 | 23 | 23 | 23 | 13 | 13 | 13 | 25 | 25 | 20 | 20 | 14 | 31 | 31 | 14 | 14 | 14 | 14 | 10 | 10 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| **Commutative** | | 10 | 20 | 30 | 40 | 50 | 73 | 96 | 119 | 132 | 145 | 158 | 183 | 208 | 228 | 248 | 262 | 293 | 324 | 338 | 352 | 366 | 380 | 390 | 400 | 402 | 404 | 406 | 408 | 410 | 412 | 414 |

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| **ID** | **1101** |  |  |  |  |  |  |  |  |  |  |
| 1.1.1 | 10 | 10 | 10 | 10 |  |  |  |  |  |  |  |
| 1.1.2 | 10 | 10 | 10 |  |  |  |  |  |  |  |  |
| 1.1.3 | 7 | 7 | 7 | 7 | 7 | 7 |  |  |  |  |  |
| 1.1.4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |  |
| 1.2.1 | 5 | 5 |  |  |  |  |  |  |  |  |  |
| 1.2.2 | 9 | 9 | 9 | 9 | 9 |  |  |  |  |  |  |
| 1.2.3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |  |  |  |  |
| 1.3.1 | 12 | 12 |  |  |  |  |  |  |  |  |  |
| 1.3.2 | 4 | 4 | 4 | 4 | 4 | 4 |  |  |  |  |  |
| 1.3.3 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |  |  |  |
| 1.3.4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |  |  |  |

Risks

1\_Negative risks:-

a-Interruption of the Internet.

b-hackers.

c-One of our employee leave the company.

d-Another competitive company make the

same technology with better quality than

us.

-Damage in the receivers.

-Increase in the cost.

-*The lack of efficiency sufficient in the*

receiver or the teams.

-Not to satisfy the users of product.

Positive risk:-

-There is only our company in the market.

-Make a change in company that may

improve our technology.

-This application work The IOS and

Android and windows operating system

Team members

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احمد عرابي مبارك عراب**