Multi-level modularity/ Optimal (U&W)

# Group 1

|  |  |  |
| --- | --- | --- |
| Abbé Mabeuf | AM | Abbé Mabeuf, curé in Vernon, brother of M. Mabeuf |
| Doctor, Vernon | DV | Doctor in Vernon |
| Colonel Pontmercy | GP | Colonel George Pontmercy, Marius's father |
| M. Mabeuf | MM | M. Mabeuf, warden of St. Sulpice, bibliophile |
| Mme Pontmercy | MP | Mme Pontmercy, younger daughter of Gillenormand |
| Napoleon | NP | Napoleon, Emperor of France |
| Mother Plutarch | PL | Mother Plutarch, housekeeper of M. Mabeuf |
| Pontmercy's servant | WP | Woman servant to Colonel Pontmercy |

# Group 2

|  |  |  |
| --- | --- | --- |
| Babet | BB | Babet, member, Patron-Minette |
| Brujon | BJ | Brujon, criminal, associate of Patron-Minette |
| Boulatruelle | BZ | Boulatruelle, former convict and road mender in Montfermeil |
| Deuxmilliards | DU | Deux-millards, aka Demi-liard, a criminal |
| Gueulemer | GU | Gueulemer, member of Patron-Minette |
| Javert | JA | Javert, police officer |
| Panchaud | PN | Panchaud, a criminal aka as Printanier, Bigrenaille |
| Claquesous | QU | Claquesous, member of Patron-Minette,aka Le Cabuc |

# Group 3

|  |  |  |
| --- | --- | --- |
| Azelma | AZ | Azelma, daughter of the Thénardiers |
| Eponine | EP | Eponine, daughter of the Thénardiers |
| Jean Valjean | JV | Jean Valjean |
| Thénardier | TH | Thénardier, innkeeper in Montfermeil, aka Jondrette |
| Mme Thénardier | TM | Madame Thénardier, wife of Thénardier |

# Group 4

|  |  |  |
| --- | --- | --- |
| Bahorel | BA | Bahorel, member, Friends of the ABC |
| Bossuet | BO | Bossuet (Lesgle), member, Friends of the ABC |
| Baroness de T | BT | Baroness de T-, friend of M. Gillenormand |
| Mme Burgon | BU | Mme Burgon (aka Bougon), new concierge at the Gorbeau tenement |
| Parisian coachman | CG | Coachman by Gorbeau tenement |
| Combeferre | CM | Combeferre, member, Friends of the ABC |
| Cosette | CO | Cosette, daughter of Fantine |
| Courfeyrac | CR | Courfeyrac, member, Friends of the ABC |
| Enjolras | EN | Enjolras, chief of Friends of the ABC |
| Gavroche | GA | Gavroche, son of the Thénardiers |
| M. Gillenormand | GI | M. Gillenormand, Marius's grandfather |
| Grantaire | GT | Grantaire, Friends of the ABC skeptic |
| Joly | JO | Joly, member Friends of the ABC |
| Prouvaire | JP | Prouvaire, member Friends of the ABC |
| Count Lamothe | LA | Count Lamothe, member of Baroness de T-'s salon |
| Marius | MA | Marius |
| Mlle Gillenormand | MG | Mlle Gillenormand, unmarried daughter of Gillenormand |
| Magnon | MN | Magnon, servant of Gillenormand |
| Mlle Vaubois | MV | Mlle Vaubois, friend of Mlle Gillenormand |
| Porter, r. de l'Ouest | PS | Porter, rue de l'Ouest |
| Marius's servant | SR | Servant to Marius at Garbeau tenement |
| Théodule | TG | Lieutenant Théodule Gillenormand, grandnephew of Gillenormand |

Spin Glass (U)

# Group 1

|  |  |  |
| --- | --- | --- |
| Bahorel | BA | Bahorel, member, Friends of the ABC |
| Bossuet | BO | Bossuet (Lesgle), member, Friends of the ABC |
| Mme Burgon | BU | Mme Burgon (aka Bougon), new concierge at the Gorbeau tenement |
| Parisian coachman | CG | Coachman by Gorbeau tenement |
| Combeferre | CM | Combeferre, member, Friends of the ABC |
| Cosette | CO | Cosette, daughter of Fantine |
| Courfeyrac | CR | Courfeyrac, member, Friends of the ABC |
| Enjolras | EN | Enjolras, chief of Friends of the ABC |
| Gavroche | GA | Gavroche, son of the Thénardiers |
| Grantaire | GT | Grantaire, Friends of the ABC skeptic |
| Joly | JO | Joly, member Friends of the ABC |
| Prouvaire | JP | Prouvaire, member Friends of the ABC |
| Marius | MA | Marius |
| Porter, r. de l'Ouest | PS | Porter, rue de l'Ouest |
| Marius's servant | SR | Servant to Marius at Garbeau tenement |

# Group 2

|  |  |  |
| --- | --- | --- |
| Abbé Mabeuf | AM | Abbé Mabeuf, curé in Vernon, brother of M. Mabeuf |
| Doctor, Vernon | DV | Doctor in Vernon |
| Colonel Pontmercy | GP | Colonel George Pontmercy, Marius's father |
| M. Mabeuf | MM | M. Mabeuf, warden of St. Sulpice, bibliophile |
| Mme Pontmercy | MP | Mme Pontmercy, younger daughter of Gillenormand |
| Napoleon | NP | Napoleon, Emperor of France |
| Mother Plutarch | PL | Mother Plutarch, housekeeper of M. Mabeuf |
| Pontmercy's servant | WP | Woman servant to Colonel Pontmercy |

# Group 3

|  |  |  |
| --- | --- | --- |
| Azelma | AZ | Azelma, daughter of the Thénardiers |
| Eponine | EP | Eponine, daughter of the Thénardiers |
| Jean Valjean | JV | Jean Valjean |
| Thénardier | TH | Thénardier, innkeeper in Montfermeil, aka Jondrette |
| Mme Thénardier | TM | Madame Thénardier, wife of Thénardier |

# Group 4

|  |  |  |
| --- | --- | --- |
| Baroness de T | BT | Baroness de T-, friend of M. Gillenormand |
| M. Gillenormand | GI | M. Gillenormand, Marius's grandfather |
| Count Lamothe | LA | Count Lamothe, member of Baroness de T-'s salon |
| Mlle Gillenormand | MG | Mlle Gillenormand, unmarried daughter of Gillenormand |
| Magnon | MN | Magnon, servant of Gillenormand |
| Mlle Vaubois | MV | Mlle Vaubois, friend of Mlle Gillenormand |
| Théodule | TG | Lieutenant Théodule Gillenormand, grandnephew of Gillenormand |

# Group 5

|  |  |  |
| --- | --- | --- |
| Babet | BB | Babet, member, Patron-Minette |
| Brujon | BJ | Brujon, criminal, associate of Patron-Minette |
| Boulatruelle | BZ | Boulatruelle, former convict and road mender in Montfermeil |
| Deuxmilliards | DU | Deux-millards, aka Demi-liard, a criminal |
| Gueulemer | GU | Gueulemer, member of Patron-Minette |
| Javert | JA | Javert, police officer |
| Panchaud | PN | Panchaud, a criminal aka as Printanier, Bigrenaille |
| Claquesous | QU | Claquesous, member of Patron-Minette,aka Le Cabuc |

Spin Glass (W)

# Group 1

|  |  |  |
| --- | --- | --- |
| Azelma | AZ | Azelma, daughter of the Thénardiers |
| Eponine | EP | Eponine, daughter of the Thénardiers |
| Jean Valjean | JV | Jean Valjean |
| Thénardier | TH | Thénardier, innkeeper in Montfermeil, aka Jondrette |
| Mme Thénardier | TM | Madame Thénardier, wife of Thénardier |

# Group 2

|  |  |  |
| --- | --- | --- |
| Baroness de T | BT | Baroness de T-, friend of M. Gillenormand |
| M. Gillenormand | GI | M. Gillenormand, Marius's grandfather |
| Count Lamothe | LA | Count Lamothe, member of Baroness de T-'s salon |
| Mlle Gillenormand | MG | Mlle Gillenormand, unmarried daughter of Gillenormand |
| Magnon | MN | Magnon, servant of Gillenormand |
| Mlle Vaubois | MV | Mlle Vaubois, friend of Mlle Gillenormand |
| Théodule | TG | Lieutenant Théodule Gillenormand, grandnephew of Gillenormand |

# Group 3

|  |  |  |
| --- | --- | --- |
| Babet | BB | Babet, member, Patron-Minette |
| Brujon | BJ | Brujon, criminal, associate of Patron-Minette |
| Boulatruelle | BZ | Boulatruelle, former convict and road mender in Montfermeil |
| Deuxmilliards | DU | Deux-millards, aka Demi-liard, a criminal |
| Gueulemer | GU | Gueulemer, member of Patron-Minette |
| Javert | JA | Javert, police officer |
| Panchaud | PN | Panchaud, a criminal aka as Printanier, Bigrenaille |
| Claquesous | QU | Claquesous, member of Patron-Minette,aka Le Cabuc |

# Group 4

|  |  |  |
| --- | --- | --- |
| Bahorel | BA | Bahorel, member, Friends of the ABC |
| Bossuet | BO | Bossuet (Lesgle), member, Friends of the ABC |
| Mme Burgon | BU | Mme Burgon (aka Bougon), new concierge at the Gorbeau tenement |
| Parisian coachman | CG | Coachman by Gorbeau tenement |
| Combeferre | CM | Combeferre, member, Friends of the ABC |
| Cosette | CO | Cosette, daughter of Fantine |
| Courfeyrac | CR | Courfeyrac, member, Friends of the ABC |
| Enjolras | EN | Enjolras, chief of Friends of the ABC |
| Gavroche | GA | Gavroche, son of the Thénardiers |
| Grantaire | GT | Grantaire, Friends of the ABC skeptic |
| Joly | JO | Joly, member Friends of the ABC |
| Prouvaire | JP | Prouvaire, member Friends of the ABC |
| Marius | MA | Marius |
| Porter, r. de l'Ouest | PS | Porter, rue de l'Ouest |
| Marius's servant | SR | Servant to Marius at Garbeau tenement |

# Group 5

|  |  |  |
| --- | --- | --- |
| Abbé Mabeuf | AM | Abbé Mabeuf, curé in Vernon, brother of M. Mabeuf |
| Doctor, Vernon | DV | Doctor in Vernon |
| Colonel Pontmercy | GP | Colonel George Pontmercy, Marius's father |
| M. Mabeuf | MM | M. Mabeuf, warden of St. Sulpice, bibliophile |
| Mme Pontmercy | MP | Mme Pontmercy, younger daughter of Gillenormand |
| Napoleon | NP | Napoleon, Emperor of France |
| Mother Plutarch | PL | Mother Plutarch, housekeeper of M. Mabeuf |
| Pontmercy's servant | WP | Woman servant to Colonel Pontmercy |