```cpp
#ifndef STOCHPARAMS_H
#define STOCHPARAMS_H

class StochParams {
public:
  int N_samples, Trajectories;
  int I_init, S_init, H_init;
  int F_init, R_init, E_init;
  double t_final;

  StochParams();
  ~StochParams();
};
#endif
```

```cpp
#ifndef MODELPARAMS_H
#define MODELPARAMS_H

class ModelParams {
public:
  double beta_I, beta_H, beta_F;
  double alpha, gamma_h, theta_1;
  double delta_1, delta_2, gamma_f;
  double gamma_i, gamma_d;

  ModelParams();
  ~ModelParams();
};
#endif
```