C++ code 11.9.3: Sub-problem (11-9.c): Implementation of `fluxdiffsource` ↬ GitLab

```cpp
template <typename FunctionF, typename SourceFunction>
Eigen::VectorXd fluxdiffsource(const Eigen::VectorXd &mu, FunctionF &&F,
                               SourceFunction &&s, double h) {
  unsigned n = mu.size();
  Eigen::VectorXd fd = Eigen::VectorXd::Zero(n);

  // constant continuation to the left by mu[0]
  fd[0] = F(mu[0], mu[1]) - F(mu[0], mu[0]) - h * s(mu[0]);
  for (unsigned j = 1; j < n - 1; ++j) {
    fd[j] = F(mu[j], mu[j + 1]) - F(mu[j - 1], mu[j]) - h * s(mu[j]);
  }
  // constant continuation to the right by mu[n - 1]
  fd[n - 1] =
      F(mu[n - 1], mu[n - 1]) - F(mu[n - 2], mu[n - 1]) - h * s(mu[n - 1]);

  return fd;
}
```