## Algorithm 1 Algorithm for finding server indices using OFG

```
▷ %comment: servers contains the index of servers whose data rate are
sorted in descending order%
servers[] = index(of all servers)
serverIndex[]=servers[0..K]
linearlyIndependentServerIndex[]=0
[Z] \leftarrow 0
for i=0 to serverIndex.length do
    \triangleright %comment: find the equation corresponding the serverIndex from the
mapping at the File Server
\!\%
   eqn = equation(serverIndex[i])
                       ▷ %comment: try insert equation into Z using OFG%
\mathbf{end} \ \mathbf{for} \mathbf{end} \ \mathbf{for}
while (linearlyIndependentServerIndex.length!=K) do
    \rhd %
comment: remove all the server index which were not inserted in
 {\bf Z}\%
   temp[]=serverIndex[]-linearlyIndependentServerIndex[]
   if (linearlyIndependentServerIndex.length=K) then
       break
   end if
end while
```