MATRIX CHAIN MULTIPLICATION

```
Algorithm MatrixChain(P, n)
{
     for i:= 1 to n do
          m[i, i] := 0;
     for l := 2 to n do
     {
          for i := 1 to (n - l + 1) do
          {
               j := i + l - 1;
               m[i, j] := infinity;
               for k := i to j-1 do
               {
                    q := m[i, k] + m[k+1, j] + (p[i-1]*p[k]*p[j]);
                    if(q < m[i, j]) then
                         m[i, j] := q;
               }
          }
     }
     return(m[1, n-1]);
}
```