```
Algorithm 1: Handover adaption
 for i \leftarrow 1 to length(trajectory) do Adaption loop
    allowedSpeed;-MaxSpeed(trajectory[i]);
    c=trajectory[i];
    p=trajectory[i-1];
    n = trajectory[i+1];
     /*speed overrun*/
    if Speed(c) \ge 1.7*allowedSpeed then
        cDist=Distance(c);
        pDist=Distance(p);
        nDist=Distance(n);
        nominalDist=allowedSpeed*Duration(c);
        SetSpeed(c, allowedSpeed);
        if p==NULL\&\&n!=NULL then
           pDist=pDist+(cDist-nominalDist);
           SetSpeed(prev,pDist/Duration(p));
        else if p!=NULL\&\&p!=NULL then
           nDist=nDist+(cDist-nominalDist);
           SetSpeed(n,nDist/Duration(n));
        else
           nTempDist=nDist+(cDist-nominalDist)/2;
           pTempDist=pDist+(cDist-nominalDist)/2;
           if nTempDist/Duration(n)\gg nominalSpeed then
               nTempDist=nDist;
               pTempDist=pDist+(cDist-nominalDist);
           else if pTempDist/Duration(p)\gg nominalSpeed then
               nTempDist=nDist+(cDist-nominalDist);
               pTempDist=nDist;
           SetSpeed(n,nTempDist/Duration(n));
           SetSpeed(p,pTempDist/Duration(p));
 end
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 for i \leftarrow 1 to length(trajectory) do Adaption loop
    allowedSpeed;-MaxSpeed(trajectory[i]);
    c=trajectory[i];
    p=trajectory[i-1];
    n = trajectory[i+1];
     /*speed overrun*/
    if Speed(c) \ge 1.7*allowedSpeed then
        cDist=Distance(c);
        pDist=Distance(p);
        nDist=Distance(n);
        nominalDist=allowedSpeed*Duration(c);
        SetSpeed(c, allowedSpeed);
        if p==NULL\&\&n!=NULL then
           pDist=pDist+(cDist-nominalDist);
           SetSpeed(prev,pDist/Duration(p));
        else if p!=NULL\&\&p!=NULL then
           nDist=nDist+(cDist-nominalDist);
           SetSpeed(n,nDist/Duration(n));
        else
           nTempDist=nDist+(cDist-nominalDist)/2;
           pTempDist=pDist+(cDist-nominalDist)/2;
           if nTempDist/Duration(n)\gg nominalSpeed then
               nTempDist = nDist; \ pTempDist = pDist + (cDist-nominalDist); \\
           else if pTempDist/Duration(p)\gg nominalSpeed then
               nTempDist=nDist+(cDist-nominalDist);
               pTempDist=nDist;
           SetSpeed(n,nTempDist/Duration(n));
           SetSpeed(p,pTempDist/Duration(p));
 end
```