Two players Amaruq and Atiqtalik are in a game with n tokens where Amaruq chooses a number 1

The run of a brute force R code like

```
B=rep(-1,200);B[1:9]=1
for (i in 10:200) {
    v=matrix(-2,9,9)
    for (b in 2:9) {
        for (a in (2:9)[-b+1])
        for (d in c(1,a,b)) {
            e=i-d-c(1,a,b)
            if (max(!e)) {v[a,b]=max(-1,v[a,b])}else {
                if (max(e)>0) v[a,b]=max(v[a,b],min(B[e[which(e>0)]]))}}
            B[i]=max(B[i],min(v[v[b]>-2,b]))}
```

always produces 1's in B, which means the first player wins no matter... I thus found out (from the published solution) that my interpretation of the game rules were wrong. The values A and B are fixed once for all and each player only has the choice between withdrawing 1, A, and B on her turn. With the following code showing that Amaruq looses both times.

```
B=rep(1,210)
for(b in(2:9))
for(a in(2:9)[-b+1])
for(i in(2:210)){
  be=-2
  for(d in c(1,a,b)){
   if (d==i){best=1}else{
     e=i-d-c(1,a,b)
     if (max(!e)){be=max(-1,be)}else{
        if (max(e)>0)be=max(be,min(B[e[which(e>0)]]))}}
B[i]=be}...
```