<!DOCTYPE html>

<html>

<head>

<title>Type your Page Title here.</title>

<script type='text/javascript'>

function check()

{

var distances=document.form.distances.value.split(",");

var a=parseInt(distances[0]);

var b=parseInt(distances[1]);

var c=parseInt(distances[2]);

var d=parseInt(distances[3]);

var s=parseInt(distances[4]);

var fullcycle, totalstepspercycle,remainder,stepaway1,stepaway2;

//person ab

totalstepspercycle=a+b;

fullcycle=Math.floor(s/totalstepspercycle);

remainder=s%totalstepspercycle;

stepaway1=(a-b)\*fullcycle;

if (remainder<=a)

{

stepaway1=(a-b)\*fullcycle+remainder;

}

else

{

stepaway1=(a-b)\*fullcycle+remainder-a;

}

//person cd

totalstepspercycle=c+d;

fullcycle=Math.floor(s/totalstepspercycle);

remainder=s%totalstepspercycle;

stepaway2=(c-d)\*fullcycle;

if (remainder<=c)

{

stepaway2=(c-d)\*fullcycle+remainder;

}

else

{

stepaway2=(c-d)\*fullcycle+remainder-a;

}

if (Math.abs(stepaway1)>Math.abs(stepaway2))

{

alert("First kid wins!");

}

else if (Math.abs(stepaway2)>Math.abs(stepaway1))

{

alert("Second kid wins!");

}

else if (Math.abs(stepaway2)==Math.abs(stepaway1))

{

alert("TIED!");

}

else

{

alert("No Winner");

}

}

</script>

</head>

<body>

<form name="form">

Distances: <input type="text" name="distances"><br><br>

<input type="button" value="Process" onclick="check()">

</form>

</body>

</html>