**Algorithm 1:** Region-selection

**input :** *img* // one class stroke image

**output:** *strokes* // strokes image

**1** *n* = 2;

**2** *strokes* = *list*();

**3 Function** infection(*i, j, n*)**:**

**4 if** 1 *< i < len*(*img*) *and* 1 *< j < len*(*img*[0]) *and img*[*i*][*j*] == 1

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then

**5** *imgs*[*i*][*j*] = *n*;

**6** *RegionSelection*(*i* 1*, j, n*);

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**7** *RegionSelection*(*i* + 1*, j, n*);

**8** *RegionSelection*(*i, j* 1*, n*);

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**9** *RegionSelection*(*i, j* + 1*, n*);

**10 end**

**11 for** *i* = 0 *to len* (*img*) **do**

**12 for** *j* = 0 *to len* (*img*[0]) **do**

**13 if** *img*[*i*][*j*] == 1 **then**

**14** *RegionSelection*(*i, j, n*);

**15** *n* = *n* + 1;

**16 end**

**17 end**

**18 end**

**19** *n* = 1;

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**20 while** *n>*1 **do**

**21** *stroke* = [[0] *len*(*imgs*)*forinrange*(*len*(*img*))];

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**22 for** *i* = 0 *to len* (*img*) **do**

**23 for** *j* = 0 *to len* (*img*[0]) **do**

**24 if** *img*[*i*][*j*] == *n* **then**

**25** *stroke*[*i*][*j*] = 1;

**26 end**

**27 end**

**28 end**

**29** *strokes.append* (*stroke*);

**30** *n*− = 1;

**31 end**

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