

$$\begin{array}{l}a,b,c,d,e??\\a\\ab??abb\\edbac\\p(\cdot)\end{array}$$

$$\begin{array}{l}d\\???????????\\x,y,z??xxyzx^1\end{array}$$

$$\begin{array}{l}mmm-1m^2\\p(\cdot)??x,y,z\end{array}$$

$$\begin{array}{l}yx\\m2^m\\x,y,z,w??p(x)=10,p(y)=11,p(z)=6,p(w)=3yyxx,z,w,yp(x)=11,p(y)=9,p(z)=7,p(w)=4x\end{array}$$

$$\begin{array}{l}?????????\\??\\.\,IXXR\,X\mathcal{P}i\in I\mathbin{\widetilde{\succ}}_i\,i\mathcal{D}_i\subset\mathcal{R}\end{array}$$

$$().\,\,fi\in I\mathbin{\widetilde{\succ}}\in\mathcal{D}_I\,\,\mathbin{\widetilde{\succ}}'_i\in\mathcal{D}_i$$

$$\mathbin{\widetilde{\succ}}_{-i}I\mathbin{\widetilde{\succ}}i\in I\mathbin{\widetilde{\succ}}_in-1(\mathbin{\widetilde{\succ}}_1,\ldots,\mathbin{\widetilde{\succ}}_{i-1},\mathbin{\widetilde{\succ}}_{i+1},\ldots,\mathbin{\widetilde{\succ}}_n)f(\mathbin{\widetilde{\succ}})f(\mathbin{\widetilde{\succ}}'_i,\mathbin{\widetilde{\succ}}_{-i})$$

$$\begin{array}{l}f(\mathbin{\widetilde{\succ}}'_i,\mathbin{\widetilde{\succ}}_{-i})if\mathbin{\widetilde{\succ}}i\mathbin{\widetilde{\succ}}_if(\mathbin{\widetilde{\succ}})i??\\().\,fi\in I\,\,\mathbin{\widetilde{\succ}}\in\mathcal{D}_I\end{array}$$

$$\begin{array}{l}i\\i\in I??x\in Xib\in X??f(\mathbin{\widetilde{\succ}})\mathbin{\widetilde{\succ}}_ibf(\mathbin{\widetilde{\succ}})\in Xibbc\in Xi\\().\,x\in X\mathbin{\widetilde{\succ}}\in D_1\,f(\mathbin{\widetilde{\succ}})=x\\x\in X\mathbin{\widetilde{\succ}}\\().\,|X|\geq 3\,f\colon\mathcal{P}^I\rightarrow X\\??\\().\,A=\{a_1,a_2,\ldots,a_l\}[0,1]\end{array}$$

$$A\mathbin{\widetilde{\succ}}_i\in\mathcal{R}\,\,b(\mathbin{\widetilde{\succ}}_i)\in Ak,k'\in\{1,2,\ldots,l\}$$

$$\begin{array}{l}A\mathcal{T}\\().\,i\mathcal{D}_i\subset\mathcal{T}\,\,\mathbin{\widetilde{\succ}}\in\mathcal{D}_Ib^m(\mathbin{\widetilde{\succ}})\,\,b(\mathbin{\widetilde{\succ}}_1)b(\mathbin{\widetilde{\succ}}_2)\ldots b(\mathbin{\widetilde{\succ}}_n)\,\,b^m(\mathbin{\widetilde{\succ}})\in\{b(\mathbin{\widetilde{\succ}}_i):i\in I\}\end{array}$$

$$\begin{array}{l}n2\,f^m\colon\mathcal{D}_I\rightarrow X\,f^m(\mathbin{\widetilde{\succ}})\stackrel{\text{def}}{=}b^m(\mathbin{\widetilde{\succ}})\\.\,i\mathcal{D}_i\subset\mathcal{T}\,f^m\colon\mathcal{D}_I\rightarrow A\\??????\mathbin{\widetilde{\succ}}????\end{array}$$